MODEL E LANDIS No. 12 STITCHER

INSTRUCTION BOOK AND PARTS CATALOG

Landis BRAND

ALL PRICES ARE WITHDRAWN

The
LANDIS MACHINE COMPANY
SAINT LOUIS, U. S. A.

Revised to October 1st, 1941.

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Saint Louis, U. S. A.

Representatives Everywhere

Revised to October 1st, 1941.

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Introduction

IN PRESENTING this Book of Instructions, it is our aim to make it as plain and clear as possible. We have taken each important part of the machine separately and explained its duties and adjustments in a way that, we believe, will enable any operator to get successful and satisfactory results.

The instructions should be studied carefully before attempting to do any work on the machine. Time given to the thorough understanding of the machine will be money saved after the machine is put in operation.

The machine is made of the best material obtainable and the workmanship is first-class in every respect. Special Heat Treated Alloy Steel Forgings are used on all parts susceptible to wear.

All parts are manufactured to accurate gauges and are interchangeable. Parts purchased to replace worn or broken members will be found to fit perfectly.

Every machine is subjected to rigid test before leaving the factory and is known to be in condition to do perfect sewing.

Landis Machine Company
Saint Louis, U. S. A.

INSTRUCTIONS

FOR the care and operation of the Landis No. 12 Model E Curved Needle and Awl Shoe Stitcher.

The successful operation of all hard wax sewing machines depends, very largely, upon three primary conditions:

FIRST: The machine must be kept clean. The accumulation of dirt and grit will do more to wear it out than actual operation under proper conditions. A few minutes' attention each day and a thorough cleaning with kerosene once a week will save a lot of trouble and prolong the working life of the machine.

SECOND: The machine must be kept well oiled. Ordinary machine oil is not good enough for a machine that has to be kept hot. A heavy Fire Proof Oil is the proper thing. We have a special oil which we use and which we recommend and are prepared to furnish to users of our machine. This is a most important matter, and operators will do well to pay strict attention to the oiling of their machines.

THIRD: The machine when in operation must be kept thoroughly hot and will not operate properly unless in this condition. We use electric units and heat is applied directly to the essential parts in the proper proportions. Our Rheostat Control gives a wide range of heat, making it possible for the operator to keep the machine at the right temperature under any condition.

Remember the machine must be hot before it will produce good work.

Operator's Instructions

on

No. 12 Landis Shoe Stitcher

OIL MACHINE THOROUGHLY ONCE A DAY

Clean wax pot frequently and add a little fresh wax occasionally. Old or burned wax will cause thread to break.

Machine must be well heated and wax in wax pot must be in good condition before attempting to sew. Thread rolls must turn freely before making any adjustments on machine. Clean thread rolls with kerosene and oil them thoroughly. Rubber strippers should be replaced if worn out.

I—SETTING OF THE NEEDLE

See cut "C"—Page No. 7.

To set needle, turn over machine until awl starts to feed; then, adjust needle so that the barb of the needle clears needle guide about 1/16 of an inch.

II—SETTING AND LINING UP AWL

Set awl with needle so it clears needle about 1/16 of an inch. Keep awl sharp and do not use a bent awl.

Awl must be in line with the needle. (See cut next page.) When machine feeds, the awl springs to the right, therefore, perfect adjustment is obtained when awl is slightly to the left of the needle. Should the awl be out of line, try a new awl and, if it appears the same, then line awl. To line up awl, loosen screw No. E26-305 and turn adjustment screw No. E26-205. See cut "B"—Page 7.

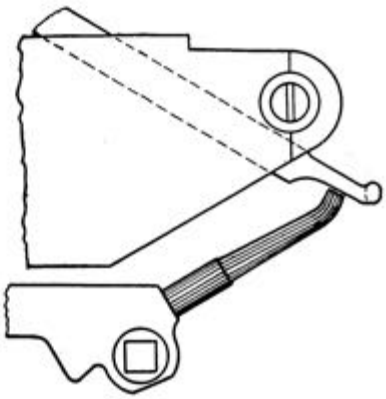
III—LOOPER No. E29-5

Set looper so that it throws thread 1/16 of an inch above barb of needle. Looper must also clear threadhook No. E29-6. Sharp edges on looper will cause the thread to fray or break. (See cut next page.)

IV—LIFTER No. E29-10

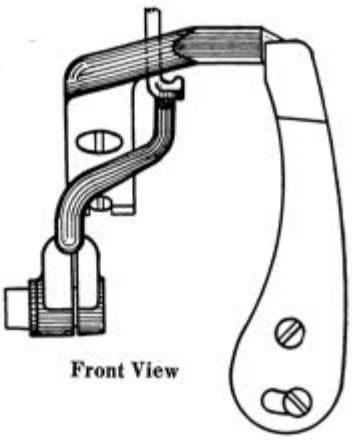
Thread lifter should be set so that it passes as close as possible to point of needle and must separate the two threads when needle comes up at this point. Thread lifter should be set close to shuttle. See cuts "D" and "E"—Page 7.

To adjust lifter No. E29-10 up or down, loosen screw No. E29-310 and turn eccentric No. E29-210 to get right position.

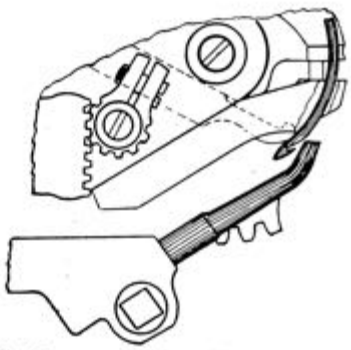


Side View

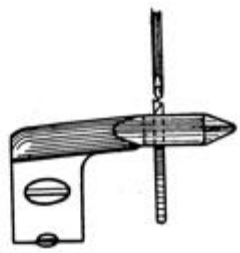
Looper Must Clear Thread Hook



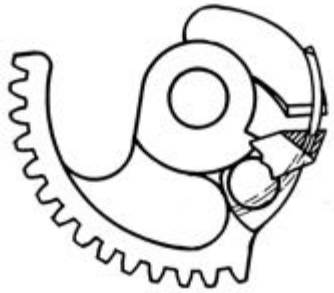
Front View



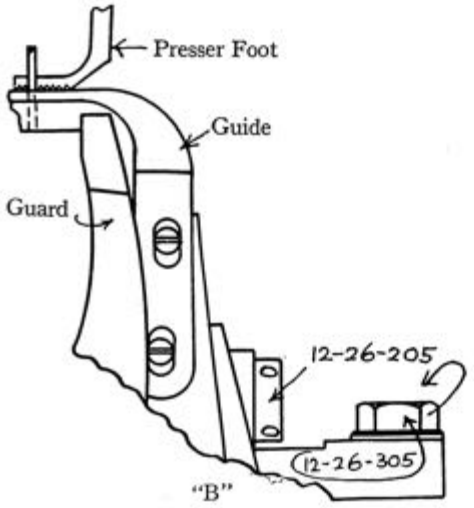
Set Looper so that it Throws Thread $\frac{1}{16}$ of an Inch Above Barb of Needle



Awl must always be set slightly to the left of needle



"A"



"B"

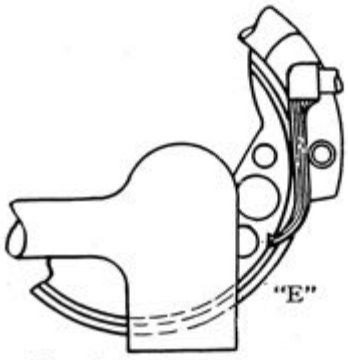
To line up awl loosen screw No. E26-305 and turn adjustment screw No. E26-205

"C"

Barb of Needle Must Clear Needle Guide About $\frac{1}{16}$ of an Inch when in a position at the time the Awl is feeding to the left

"D"

Thread Lifter must pass as close as possible to point of needle



"E"

Thread Lifter should be set close to shuttle at this point

Operator's Instructions

on

No. 12 Landis Shoe Stitcher

(Continued)

V—TENSION

Adjust tension to prevent an uneven amount of thread being drawn from the wax pot.

If tension is too tight, the lock will be placed unevenly in the sole. The result will be ripped work.

Before adjusting the tension be sure that thread rolls and the felt washers of the tension are clean.

Strippers should be replaced when worn out.

Adjust stripper tight enough so that it strips the wax off the thread. When stripper is too tight it will act like a tension and will cause thread to break.

VI—BOBBIN TENSION

Thread in bobbin must pull freely. Should bobbin thread pull hard it is caused by either burned thread or bobbin case gummed up with old wax. Oil and clean bobbin case often.

When machine is heated, but not in use, take out bobbin case. This will prevent thread from being burned.

To increase tension on bobbin thread, turn Tension Cam on side of bobbin case.

VII—THREAD LOCK LEVER

To test thread lock lever, turn machine over until take up lever is at its lowest point, then pull on thread. Thread must not slip through lock roll when machine is in this position.

To adjust thread lock lever. Loosen Front Nut No. E28-308 on part No. E28-8 and tighten Rear Nut; this will increase lock pressure. To decrease lock pressure, reverse adjustments.

Care must be taken not to use too much pressure on lock lever, as it will crush the thread and bind cam roll.

VIII—THREAD MEASURE

To adjust thread measure, see that Eccentric Stud No. E27-216 is in neutral position. The shortest corner of the hexagonal head on this stud must be toward the front of machine.

Loosen screw No. E27-316 and turn Eccentric Stud, up for more thread or down for less thread.

The thread should be locked half way thru a single piece of leather sewed by itself.

The function of this device is to make a uniform lock, in the different thicknesses of soles automatically.

Operator's Instructions

on

No. 12 Landis Shoe Stitcher

(Continued)

IX—Heating

The machine is heated by four Electric Units placed at the Wax Pot, Take-Up, Shuttle, and Bobbin Winder, each one of the proper size to take care of its particular duty so that the machine is uniformly heated. We also furnish a Rheostat or Heat Regulator which gives a wide variation of heat to suit any climatic condition. Keep the wax just below the boiling point and the entire machine will be at the proper working temperature.

In changing from 110 to 220 volts or vice versa, it is necessary to change copper links on terminal block. See wiring diagram on Page 49, or write for diagram.

X—Sewing

To sew properly, let the machine do the feeding. Do not CROWD or RETARD the feeding of the work into the machine. Do not FORCE the machine to take a longer stitch than the one it is set for, as this will bend the needle, causing the thread to fray and break, also causing the needle to break. Do not RETARD the feed as this will bend the awl, causing it to get out of line.

Do not TWIST or otherwise DISTORT the work when feeding the machine. Needles and awls are very easily sprung, and when so sprung the machine will not do satisfactory work.

All that is required of the operator is to guide the work, and the machine will feed properly and sew a smooth, even stitch.

The machine may be in perfect adjustment and still fail to do satisfactory sewing if the operator is careless in handling his work.

Size of Thread, Needles and Awls

A little experience will soon enable the operator to select the size of needle best suited for his work. The following table may be used as a general guide for the size of needles used for the different sizes of thread.

For 4 to 6 stitches per inch, 9 cord thread, No. 24 Needle and Awl.

For 7 to 9 stitches per inch, 8 cord thread, No. 23 Needle and Awl.

For 10 stitches per inch, 7 cord thread, No. 22 Needle and Awl.

For 12 stitches per inch, 6 cord thread, No. 21 Needle and Awl.

For 14 stitches per inch, 5 cord thread, No. 20 Needle and Awl.

The No. 12 Landis Needles and Awls are numbered 20, 21, 22, 23 and 24, Number 20 being the smallest.

Needles and Awls of the same number should always be used together.

Speed of the Machine

The No. 12 Shoe Stitcher should be run at a speed of 250 to 300 revolutions per minute. To get this speed the lower shaft should run about 600 revolutions per minute. When the machine is coupled to the drive-shaft of a LANDIS FINISHING OUTFIT which has a speed of 850 revolutions per minute, it will require a 4-inch dia. pulley on the Finisher Shaft and 6-inch dia. pulley on the Stitcher Shaft. Drive for 400-Line Finisher furnished when needed.

WRENCH LIST

No.		Price
W1	Socket Wrench for Needle and Awl Clamp	$0.75
W2	Socket Wrench for Needle Guide Screw	.75
W3	Offset Wrench for Segment Binding Screw	.25
W4	Single End Wrench for Bobbin Lock Nuts	.60
W5	Double End Wrench	.50
W6	Stripper Adjusting Pin	.25
W7	Socket Wrench for Looper Binding Screw	.75
31-913H	Threading Wire	.28
WO	Socket Wrench for Presserfoot Retaining Screw	.85

All Prices Subject To Change Without Notice

IMPORTANT

INSTRUCTIONS FOR ORDERING PARTS

The pictures on the following pages show clearly the parts that are used, with reference to Section Number and Part Number.

Do not order parts by name only. Order by Section Number and Part Number as given in the list as well as by name.

Always give us the Serial Number of your machine.

For example: The owner of machine No. 435 wants to order a new Needle Plate, Short Stitch Lip only. By referring to Page No. 14 you will note the Needle Plate Short Stitch Lip only is designated as Section No. 24 Part No. 8HA or 24-8HA. The order should read, "Needle Plate Short Stitch Lip only No. 24-8HA for Landis No. 12 Stitcher No. 435".

METHOD OF LISTING PARTS

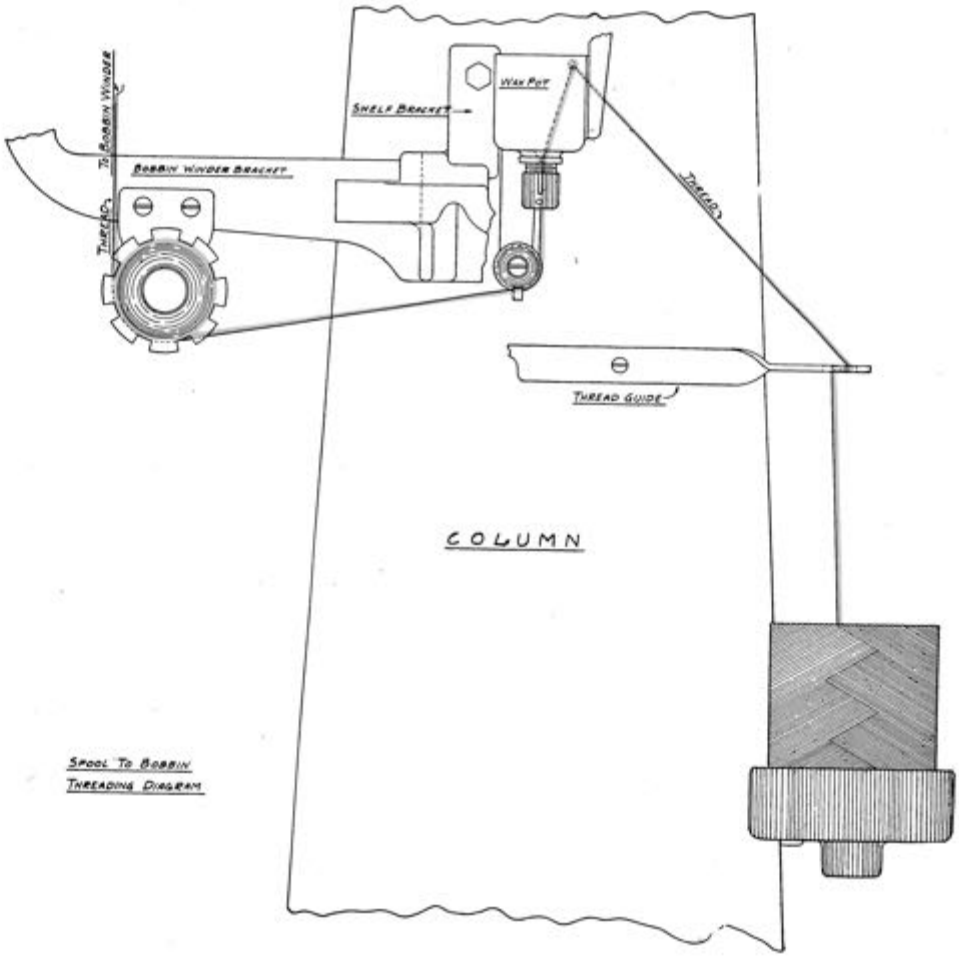
The different parts of the No. 12 Landis Shoe Stitcher have been arranged in groups for convenience and are designated in this catalogue as section Numbers 21 to 32, inclusive. The chief parts in each section, that is the castings and forgings, are numbered from 1 to 100. The smaller parts, such as screws, studs, springs, etc., are numbered in accordance with the table given below.

The number designating any particular part of the machine is made up of the section number and the part number.

Main Parts, Castings and Drop Forgings	are numbered 1 to 100
Washers, Collars and Rolls	are numbered 101 to 200
Studs	are numbered 201 to 300
Screws and Nuts	are numbered 301 to 400
Shafts	are numbered 401 to 500
Pins and Rivets	are numbered 501 to 600
Punchings and Stampings	are numbered 601 to 700
Springs	are numbered 701 to 800
Wire Connections	are numbered 801 to 900
Miscellaneous Parts	are numbered 901 to 1000

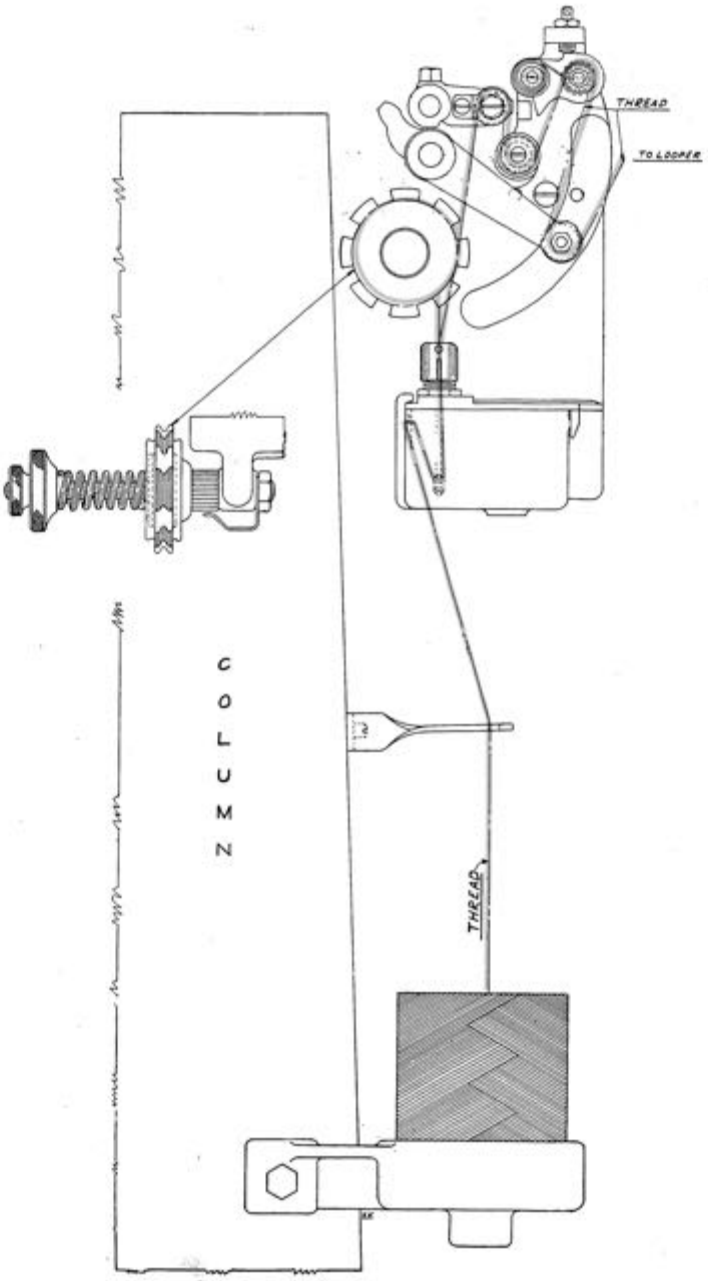
All prices listed in this book are subject to change without notice.

Threading Diagram
for
Bobbin Winder Thread



Spool To Bobbin
Threading Diagram

Threading Diagram
for
Sewing or Machine Thread



Landis No. 12—Operator's Parts List

Needle Guides

Part No.	Name of Part	Price
24-3	Needle Clamp, Assembled	$1.10
24-7	Needle Guide, Size No. 21	.85
24-7A	Needle Guide, Size No. 22	.85
24-7B	Needle Guide, Size No. 23	.85
24-7C	Needle Guide, Size No. 24	.85
24-7D	Needle Guide, Size No. 20	.85
24-307	Needle Guide Retaining Screw	.10
24-507	Needle Guide Dowel Pin	.10

Needle Plates

24-8	Long Stitch Plate	$1.65
24-8A	Short Stitch Plate	1.65
24-8G	Stitch Down Plate	3.85
24-8H	Long Stitch Plate Lip only	2.20
24-8HA	Short Stitch Plate Lip only	2.20
24-8J	Long Stitch Plate Block only	2.20
24-8JA	Short Stitch Plate Block only	2.20
24-8K	Long Stitch Plate Block and Lip	2.20
24-8KA	Short Stitch Plate Block and Lip	2.20
24-8S	Special Short Stitch Plate	1.65
24-308	Needle Plate Retaining Screw	.10
26-11	Awl Clamp, Assembled	1.10

Presserfoot

27-5	Plain Bottom, Short Stitch Presserfoot	$1.75
27-5A	Corrugated Bottom Short Stitch Presserfoot	1.75
27-5D1	Channel Presserfoot Style No. 1	2.55
27-5E	Channel Knife for Style No. 1	.25
27-5F	Stitch Wiper Presserfoot	2.75
27-5G	Channel Presserfoot Style No. 3	2.55
27-5H	Channel Knife for Style No. 3	.25
27-5J	Corrugated Bottom Long Stitch Presserfoot	1.75
27-5K	Corrugated Bottom Short Stitch Presserfoot	1.75
27-5M	Channel Knife	.25
27-5S	Corrugated Bottom Short Stitch Presserfoot, **Special**	1.75
27-305E	Channel Knife Retaining Screw for Style No. 1	.10
27-305G	Channel Knife Adjusting Screw for Style No. 3	.10
27-305H	Channel Knife Clamp Screw for Style No. 3	.10
27-305	Presserfoot Retaining Screw	.10
27-605H	Channel Knife Clamp	.55
27-605M	Channel Knife Clamp	55
29-5	Looper	1.40
29-305	Looper Binding	.25
29-10	Thread Lifter	1.40
29-310	Thread Lifter Binding Screw	.30
31-208A	Wax Pot Stripper Stud	.30
31-324A	Wax Pot Stripper Screw	.35
31-324B	Wax Pot Stripper Binding Screw	.30
31-908E	Wax Pot Stripper Rubber	.10

All Prices Subject To Change Without Notice

24-3
ASSEMBLED

24-7D
SIZE 20

24-7
SIZE 21

24-7A
SIZE 22

24-7B
SIZE 23

24-7C
SIZE 24

24-307

24-507

24-8
LONG STITCH

24-8A
SHORT STITCH

24-8G
STITCH DOWN

24-8H. LONG
24-8HA. SHORT
LIP. ONLY

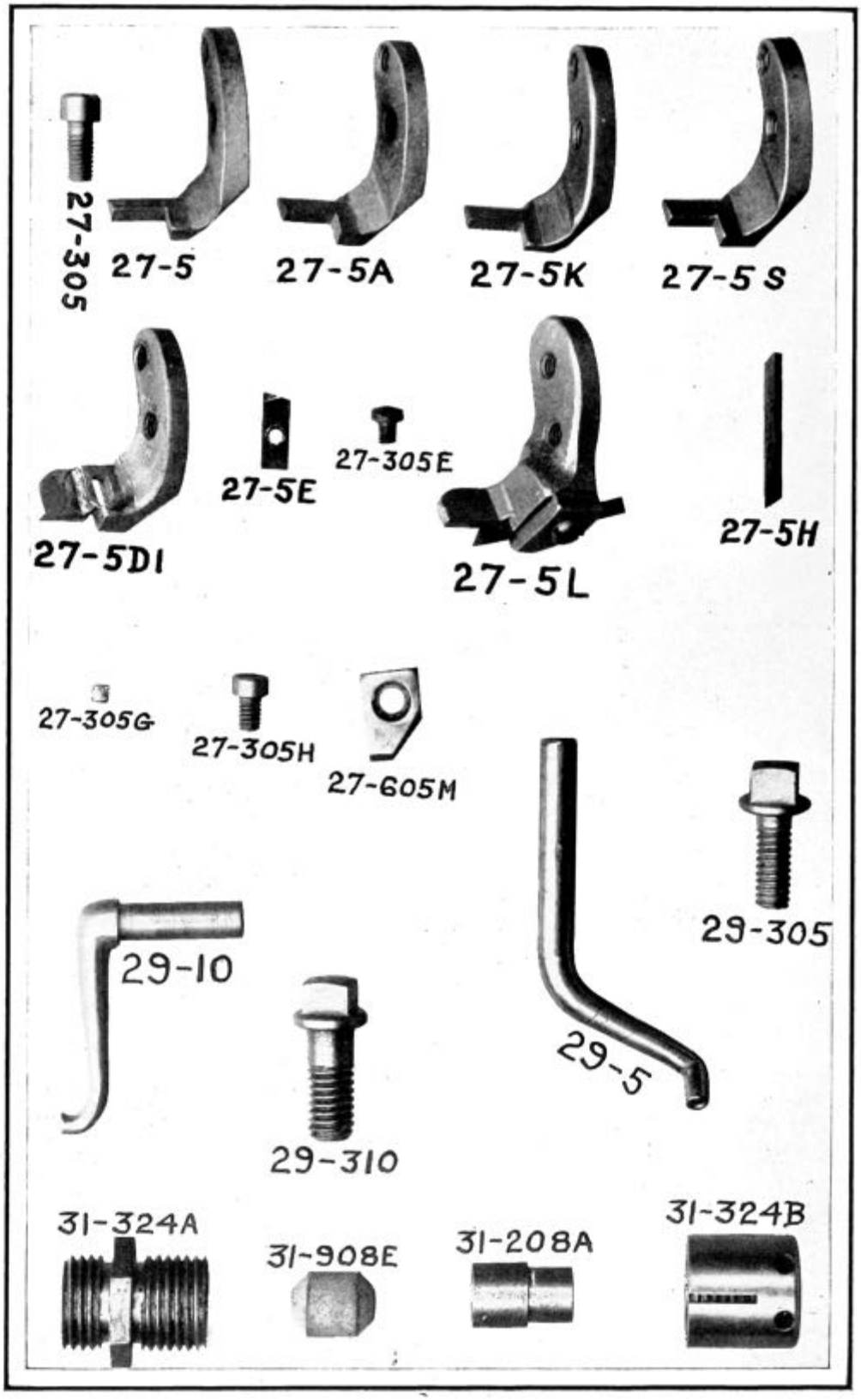
24-8J. LONG
24-8JA. SHORT
BLOCK. ONLY

24-8K. LONG
24-8KA. SHORT
BLOCK & LIP

24-8S
EXTRA SHORT

24-308

26-11
ASSEMBLED

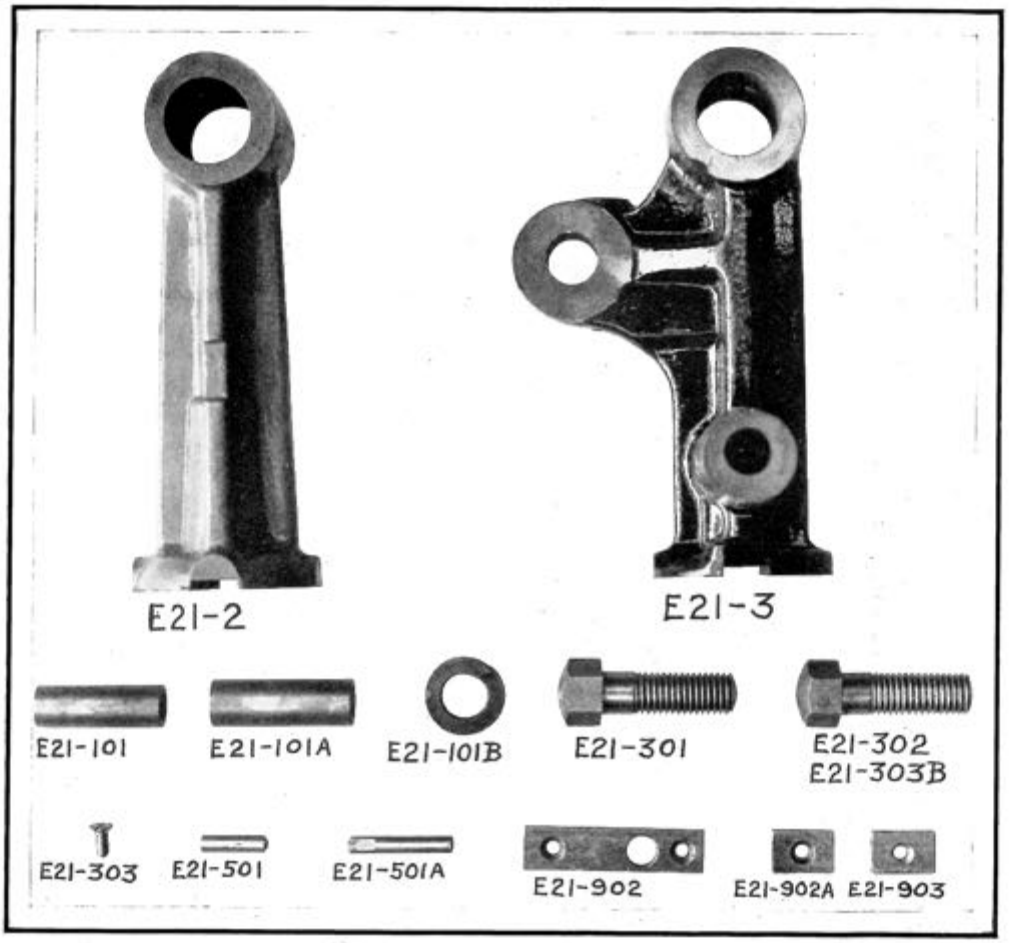

27-305
27-5
27-5A
27-5K
27-5 S
27-5DI
27-5E
27-305E
27-5L
27-5H
27-305G
27-305H
27-605M
29-10
29-310
29-5
29-305
31-324A
31-908E
31-208A
31-324B

When ordering parts the **SERIAL NUMBER** of your machine **MUST** be given.

Section No. E21

Base

Part No.	Reqd.	Name of Part	Price
E21-1	1	Base of Machine	$27.50
E21-2	1	Right Hand Cam Shaft Column	3.30
E21-3	1	Left Hand Cam Shaft Column	4.95
E21-101	1	Thread Measure Shaft Bushing	.39
E21-101A	1	Take Up Lever Bushing	.39
E21-101B	2	Lock Washer Base to Stand Screw	.10
E21-301	2	Screw for Base to Stand	.18
E21-302	1	Screw for R. H. Cam Shaft Column	.10
E21-303	5	Seating Key Retaining Screw	.10
E21-303B	1	Screw for L. H. Cam Shaft Column	.10
E21-501	2	Auxiliary Take Up Bracket Dowel Pin	.10
E21-501A	1	Presserfoot Cam Lever Pawl Releasing Pin	.10
E21-902	1	R. H. Cam Shaft Column Seating Key	.55
E21-902A	1	R. H. Cam Shaft Column Seating Key	.28
E21-903	2	L. H. Cam Shaft Column Seating Key	.28



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When ordering parts the **SERIAL NUMBER** of your machine **MUST** be given.

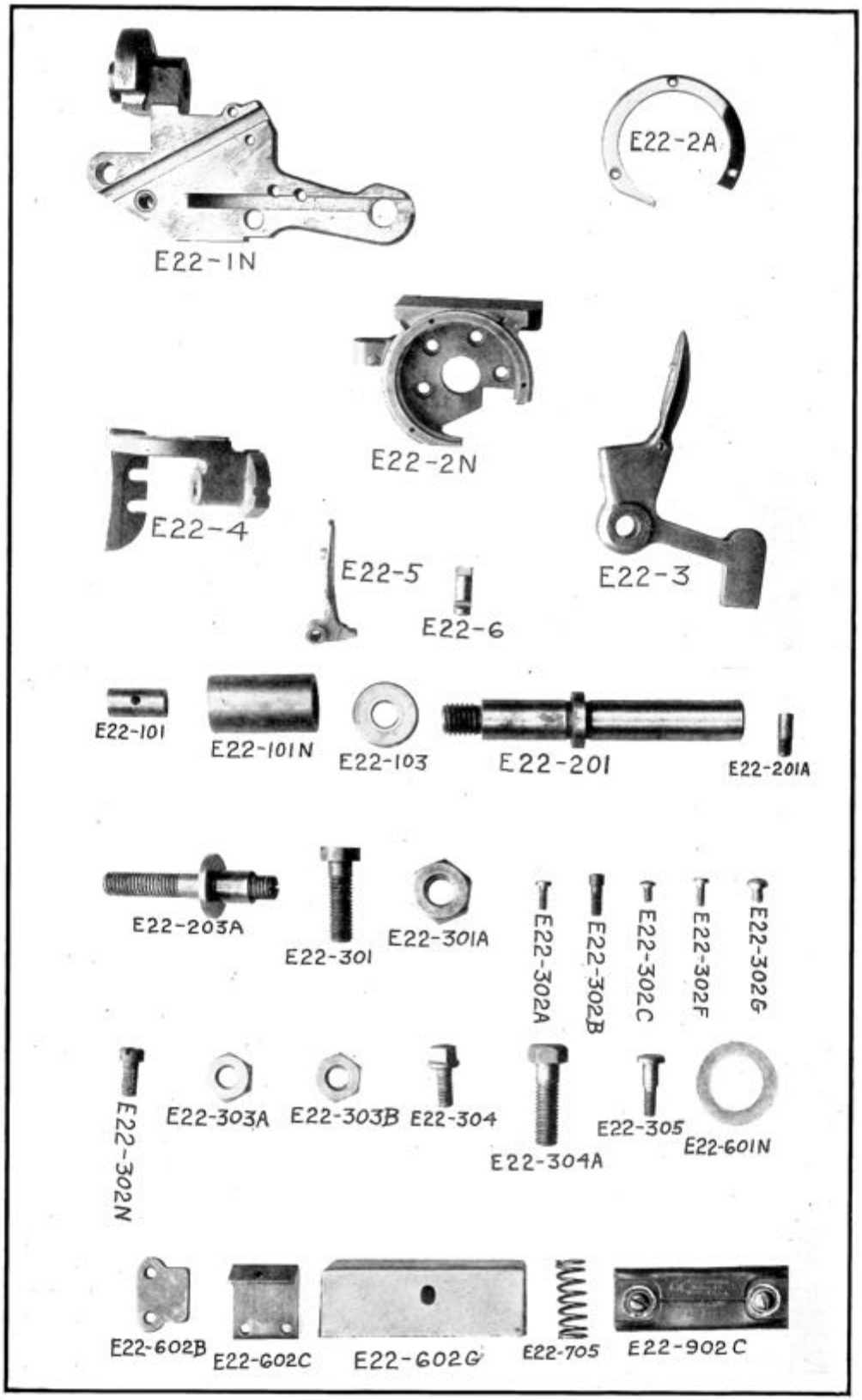
Landis No. 12—Section No. E22

Head Mechanism

Part No.	Reqd.	Name of Part	Price
E22-1N	1	Head	$11.00
E22-2A	1	Shuttle Ring (Bronze)	2.75
E22-2N	1	Shuttle Case	4.40
E22-3	1	Bobbin Case Guide Arm	4.40
E22-4	1	Guide Arm Bracket	3.85
E22-5	1	Bobbin Case Guide Arm Locking Lever	.83
E22-6	1	Bobbin Case Guide Arm Locking Pawl	.28
E22-101	1	Bushing for Needle Guide Driving Pinion	.28
E22-101N	1	Bronze Bushing for Head	.39
E22-103	1	Guide Arm Retaining Washer	.17
E22-201	1	Stud for Head	1.65
E22-201A	1	Screw Dowel for Needle Plate	.10
E22-203A	1	Guide Arm Adjusting Pivot Stud	.55
E22-301	1	Screw for Head	.17
E22-301A	1	Nut for Head Stud	.10
E22-302A	2	Shuttle Ring Screw (Flat Head)	.10
E22-302B	2	Thread Hook Race Cap Retaining Screw	.10
E22-302C	1	Shuttle Ring Screw (Round Head)	.10
E22-302F	2	Shuttle Unit Clamp Retaining Screw	.10
E22-302G	1	Shuttle Unit Cover Retaining Screw	.10
E22-302N	4	Shuttle Case to Head Retaining Screw	.10
E22-303A	1	Nut for Guide Arm Retaining Washer	.10
E22-303B	1	Lock Nut Guide Arm Pivot Stud Nut	.10
E22-304	2	Guide Arm Bracket Retaining Screw	.22
E22-304A	1	Guide Arm Bracket Brace Screw	.10
E22-305	1	Locking Lever Pivot Screw	.10
E22-601N	1	Wear Ring for Shuttle Driver	.17
E22-602B	1	Cap for Thread Hook Race	.28
E22-602C	1	Shuttle Unit Clamp	.10
E22-602G	1	Shuttle Unit Cover	.55
E22-705	1	Locking Lever Spring	.10
E22-902C	1	Shuttle Electric Unit	3.30

All Prices Subject To Change Without Notice

Section No. E22



When ordering parts the **SERIAL NUMBER** of your machine **MUST** be given.

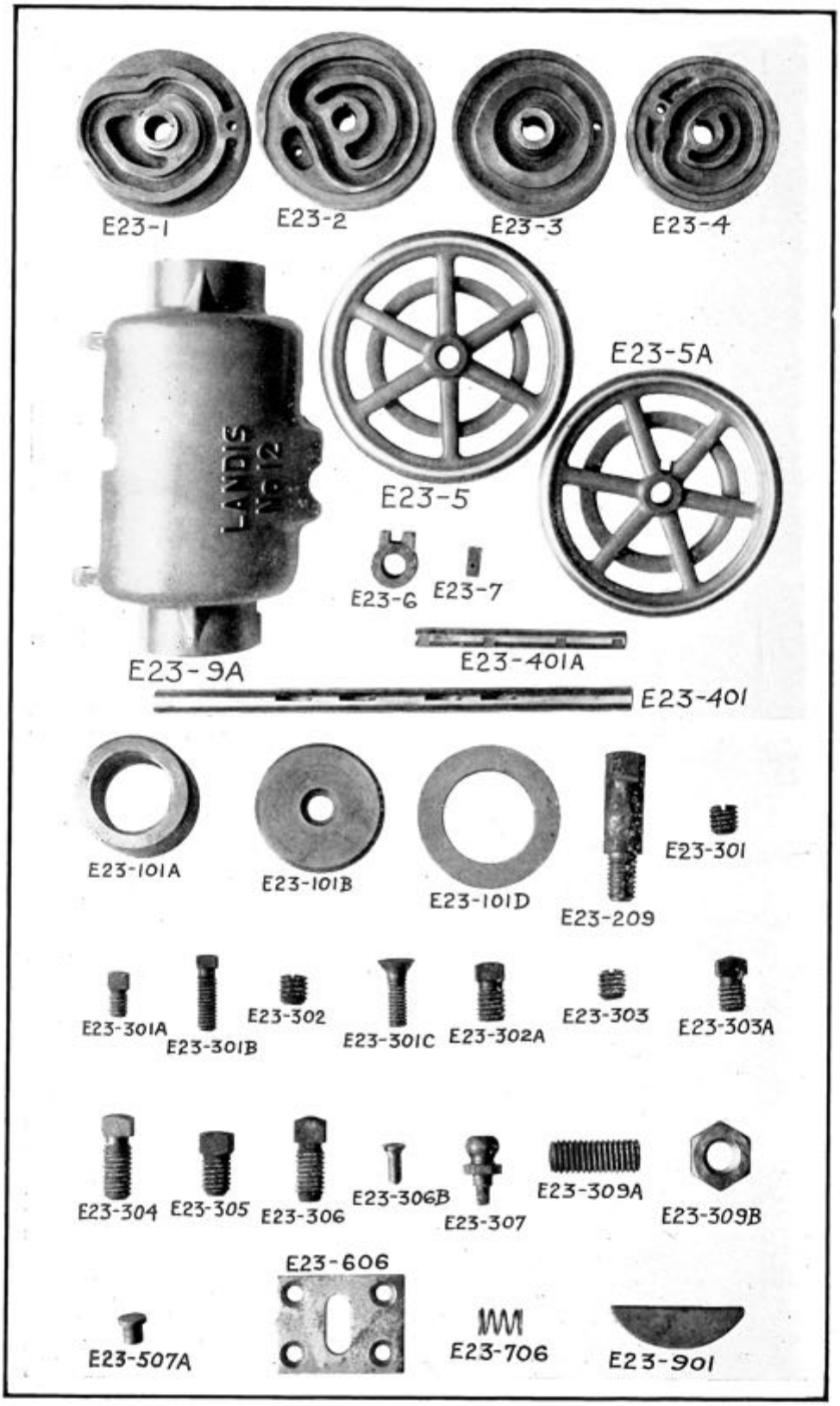
Landis No. 12—Section No. E23

Cam, Clutch, and Hand Wheel

Part No.	Reqd.	Name of Part	Price
E23-1	1	Take Up, Thread Lock and Needle Guide Cam	$11.00
E23-2	1	Shuttle, Needle, Thread Hook and Looper Cam	16.50
E23-3	1	Awl, Presserfoot, Thread Lifter and Looper Cam	16.50
E23-4	1	Feed and Thread Measure Cam	11.00
E23-5	1	Hand Wheel, Right Hand	9.35
E23-5A	1	Hand Wheel, Left Hand	11.00
E23-6	1	Hand Wheel Clutch Body Complete, $2.50	1.65
E23-7	1	Catch for Clutch	.77
E23-9A	1	Cam Cover	6.60
E23-101A	2	Cam Lever Shaft Set Collar	.33
E23-101B	1	Retaining Washer, for Hand Wheel	.10
E23-101D	1	Spacing Washer for No. 4 Cam	.10
E23-209	2	Cam Cover Pivot Stud	.17
E23-301	2	Headless Set Screw for No. 1 Cam	.10
E23-301A	2	Cam Lever Shaft Set Collar Set Screw	.10
E23-301B	2	Cam Lever Shaft Set Screw	.10
E23-301C	1	Hand Wheel Retaining Washer, Screw	.10
E23-302	1	Headless Set Screw for No. 2 Cam	.10
E23-302A	1	Set Screw for No. 2 Cam	.10
E23-303	1	Headless Set Screw for No. 3 Cam	.10
E23-303A	1	Set Screw for No. 3 Cam	.10
E23-304	1	Set Screw for No. 4 Cam	.10
E23-305	2	Set Screw for Hand Wheel	.17
E23-306	2	Set Screw for Clutch Body	.17
E23-306B	4	Catch Retaining Plate, Retaining Screw	.10
E23-307	1	Catch Knob for Hand Wheel Clutch	.17
E23-309A	2	Cam Cover Support Screw	.17
E23-309B	2	Cam Cover Support Screw Nut	.10
E23-401	1	Cam Shaft	4.95
E23-401A	1	Cam Lever Shaft	2.20
E23-507A	1	Spring Pin, for Clutch	.10
E23-606	1	Catch Retaining Plate	.17
E23-706	1	Spring for Clutch	.10
E23-901	4	Cam Shaft Key	.10
E23-905B		Bound Belt Hook, Dozen	.10

All Prices Subject To Change Without Notice

Section No. E23



When ordering parts the **SERIAL NUMBER** of your machine **MUST** be given.

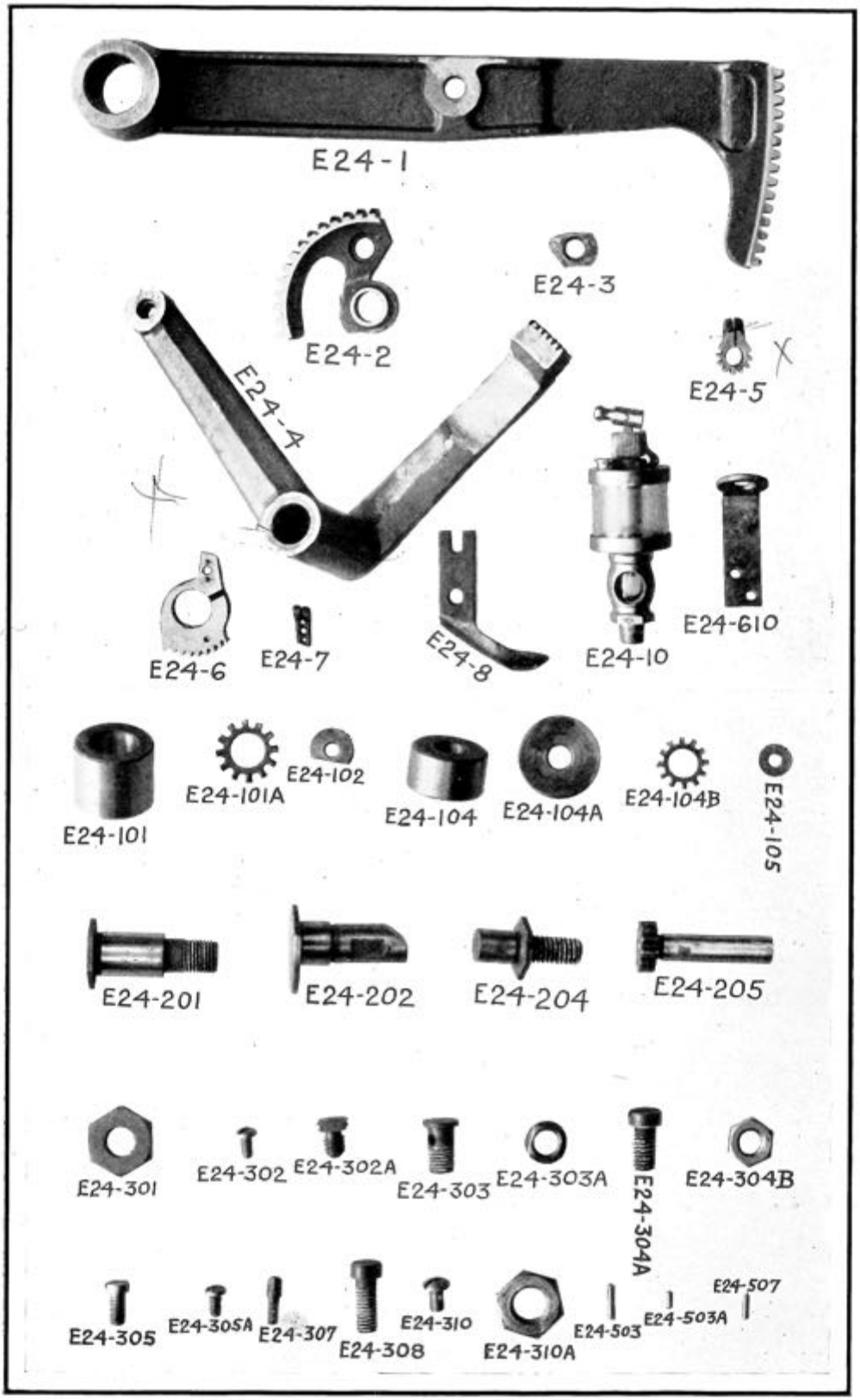
Landis No. 12—Section No. E24

Needle Mechanism

Part No.	Reqd.	Name of Part	Price
E24-1	1	Needle Cam Lever	$5.50
E24-2	1	Needle Segment	7.15
E24-3	1	Needle Clamp Block	.66
E24-4	1	Needle Guide Cam Lever	3.85
E24-5	1	Needle Guide Driving Segment	~~1.37~~
E24-6	1	Needle Guide Arm	2.20
E24-7	1	Needle Guide	.83
E24-8	1	Needle Plate	1.65
E24-10	1	Oil Cup for Needle Segment and Guide	3.30
E24-101	1	Needle Cam Lever Roll	.83
E24-101A	1	Needle Cam Lever Nut, Lock Washer	.10
E24-102	1	Needle Segment Stud Washer	.10
E24-104	1	Needle Guide Cam Lever Roll	.83
E24-104A	1	Needle Guide Cam Lever Retaining Washer	.10
E24-104B	1	Needle Guide Cam Lever Nut, Lock Washer	.10
E24-105	1	Needle Guide Segment Retaining Washer	.10
E24-110A	1	Bushing for Oiler	.10
E24-201	1	Needle Cam Lever Roll Stud	.83
E24-202	1	Needle Segment Stud	~~1.37~~
E24-204	1	Needle Guide Cam Lever Roll Stud	.83
E24-205	1	Needle Guide Driving Segment Pinion	~~1.37~~
E24-301	1	Needle Cam Lever Roll Stud Nut	.17
E24-302	1	Needle Segment Stud Washer Retaining Screw	.10
E24-302A	1	Needle Segment Stud Set Screw	.10
E24-303	1	Screw for Needle Clamp Block	.28
E24-303A	1	Nut for Needle Clamp Block Screw	.17
E24-304A	1	Needle Guide Cam Lever Retaining Washer Screw	.10
E24-304B	1	Needle Guide Cam Lever Roll Stud Nut	.10
E24-305	1	Needle Guide Driving Segment Binding Screw	.10
E24-305A	1	Needle Guide Driving Segment Washer Screw	.10
E24-307	1	Needle Guide Screw	.10
E24-308	1	Needle Plate Retaining Screw	.10
E24-310	2	Oiler Bracket Retaining Screw	.10
E24-310A	1	Oil Cup Retaining Nut	.10
E24-503	1	Needle Clamp Block Locating Pin	.10
E24-503A	1	Needle Clamp Block Screw Locating Pin	.10
E24-507	2	Needle Guide Dowel Pin	.10
E24-610	1	Oiler Bracket	.10
E24-910A	1	Oiler Tube	.22

All Prices Subject To Change Without Notice

Section No. E24



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Landis No. 12—Section No. E25

Shuttle and Bobbin Winder

Part No.	Reqd.	Name of Part	Price
E25-1	1	Shuttle Cam Lever	$7.15
E25-2	1	Shuttle Driver Pinion	1.65
E25-3	1	Shuttle Driver	4.95
E25-4	1	Shuttle	9.35
E25-5A	1	Bobbin Case Assembled	5.50
E25-6	1	Bobbin	.28
E25-8	1	Bobbin Winder Pulley	1.10
E25-13	1	Bobbin Winder Tension Wheel	1.38
E25-14	1	Bobbin Winder Tension Spring, Adjusting Disc	.55
E25-15	1	Bobbin Winder Tension Spring, Locking Disc	.28
E25-17A	1	Bobbin Winder Bracket	2.20
E25-18	1	Bobbin Winder Tension Wheel Bracket....Assm. Comp. $5.25	.99
E25-101	1	Shuttle Cam Lever, Roll	.83
E25-101A	1	Shuttle Cam Lever Nut, Lock Washer	.10
E25-102	1	Shuttle Driver Pinion, Retaining Washer	.10
E25-102A	1	Shuttle Driver Pinion, Lock Washer	.10
E25-201	1	Shuttle Cam Lever Roll, Stud	.83
E25-213	1	Thread Tension Wheel, Stud	1.10
E25-301	1	Shuttle Cam Lever Roll Stud, Nut	.17
E25-302	1	Shuttle Driver Pinion, Retaining Nut	.10
E25-307R	1	Bobbin, Lock Nut	.28
E25-308	1	Bobbin Winder Pulley, Set Screw	.10
E25-313	1	Thread Tension Wheel Stud, Nut	.10
E25-317A	2	Bobbin Winder Bracket, Retaining Screw	.10
E25-318	2	Tension Wheel Bracket, Retaining Screw	.10
E25-318A	2	Bobbin Winder Heat Unit Clamp, Screw	.10
E25-318B	1	Bobbin Winder Heat Unit Cover, Retaining Screw	.10
E25-318C	2	Bobbin Winder Conduit Support, Retaining Screw	.10
E25-407B	1	Bobbin Winder Shaft	1.38
E25-505A	1	Bobbin Case Tension Spring, Rivet	.10
E25-505B	1	Bobbin Case Tension Cam, Rivet	.10
E25-605B	1	Bobbin Case, Tension Cam	.10
E25-613	1	Tension Wheel Spring Friction Disc	.10
E25-618	1	Bobbin Winder Heat Unit, Clamp	.10
E25-618A	1	Bobbin Winder Heat Unit Cover	.10
E25-618C	1	Bobbin Winder Conduit Support	.28
E25-705A	1	Bobbin Case Tension Spring	.28
E25-713	1	Thread Tension Wheel, Spring	.17
E25-903	1	Key for Shuttle Driver	.10
E25-913	1	Tension Wheel, Felt Washer (small hole)	.10
E25-918	1	Bobbin Winder Heat Unit	3.30
E25-918A	1	Tension Wheel Bracket Asbestos Pad	.10

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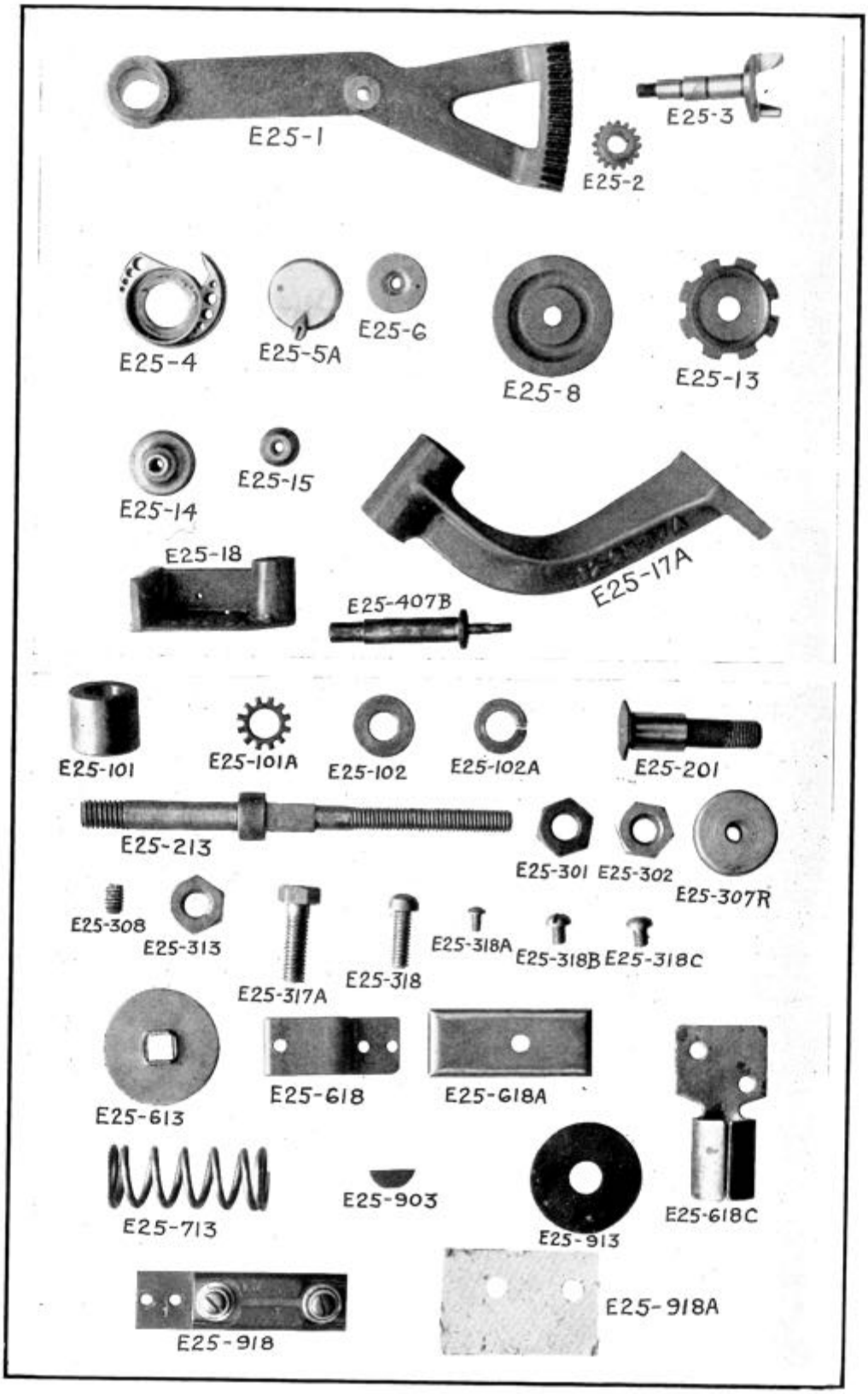
Section No. E25



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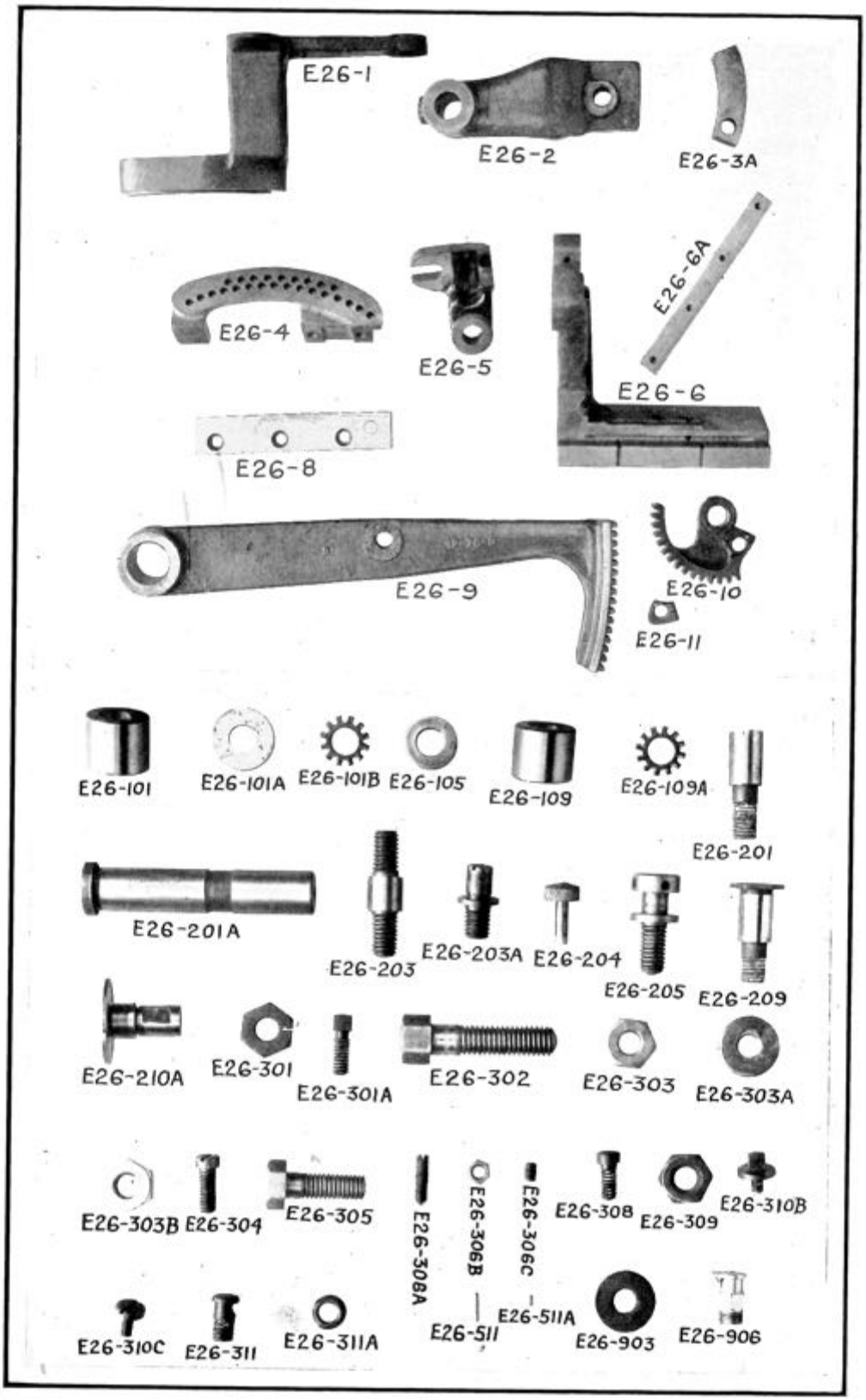
Landis No. 12—Section No. E26

Feed and Awl Mechanism

Part No.	Reqd.	Name of Part	Price
E26-1	1	Feed Cam Lever	$3.85
E26-2	1	Feed Cam Lever Bracket	2.20
E26-3A	1	Feed Adjusting Lever Slide Block	~~1.37~~
E26-4	1	Feed Adjusting Lever Index Plate	~~1.37~~
E26-5	1	Feed Adjusting Lever Bracket	1.10
E26-6	1	Feed Slide	5.50
E26-6A	1	Feed Slide Gib	.55
E26-8	1	Feed Slide Retaining Plate (rear)	.83
E26-9	1	Awl Cam Lever	5.50
E26-10	1	Awl Segment	7.15
E26-11	1	Awl Clamp Block	.66
E26-101	1	Feed Cam Lever Roll	.83
E26-101A	1	Feed Cam Lever Roll Stud Spacing Washer	.10
E26-101B	1	Feed Cam Lever Roll Stud Lock Washer	.10
E26-105	1	Feed Adjusting Lever Bracket Binding Screw Washer	.10
E26-109	1	Awl Cam Lever Roll	.83
E26-109A	1	Awl Cam Lever Roll Stud Lock Washer	.10
E26-201	1	Feed Cam Lever Roll Stud	.83
E26-201A	1	Feed Cam Lever Pivot Stud	.83
E26-203	1	Feed Adjusting Lever Pivot Stud	.83
E26-203A	1	Feed Adjusting Lever Slide Block Pivot Stud	.55
E26-204	2	Index Plate Stop Pin	.10
E26-205	1	Adjusting Stud, for Feed Adjusting Lever Bracket	.28
E26-209	1	Awl Cam Lever Roll Stud	.83
E26-210A	1	Awl Segment Stud	~~1.37~~
E26-301	1	Feed Cam Lever Roll Stud Nut	.17
E26-301A	1	Feed Cam Lever Pivot Stud Set Screw	.10
E26-302	1	Feed Cam Lever Bracket Retaining Screw	.10
E26-303	2	Feed Adjusting Lever Pivot Stud Nut	.10
E26-303A	1	Feed Adjusting Lever Pivot Stud Adjusting Nut	.17
E26-303B	1	Feed Adjusting Lever Slide Block Stud Nut	.10
E26-304	2	Index Plate Retaining Screw	.10
E26-305	1	Feed Adjusting Lever Bracket Binding Screw	.10
E26-306A	4	Feed Slide Gib Adjusting Screw	.10
E26-306B	4	Feed Slide Gib Adjusting Screw Nut	.10
E26-306C	1	Set Screw for Awl Segment Stud	.10
E26-308	3	Feed Slide Retaining Plate, Retaining Screw	.10
E26-309	1	Awl Cam Lever Roll Stud Nut	.17
E26-310B	1	Awl Segment Stud Retaining Screw	.28
E26-310C	1	Awl Segment Stud Retaining Screw Binding Screw	.10
E26-311	1	Awl Clamp Block Binding Screw	.28
E26-311A	1	Awl Clamp Block Binding Screw Nut	.17
E26-511	1	Awl Clamp Block Locating Pin	.10
E26-511A	1	Awl Clamp Block Binding Screw Locating Pin	.10
E26-903	1	Feed Adjusting Lever Friction Washer (leather)	.10
E26-906	1	Oiler for Feed Slide	.28

All Prices Subject To Change Without Notice

Section No. E26



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Landis No. 12—Section No. E27

Presserfoot and Thread Measure

Part No.	Reqd.	Name of Part	Price
E27-1A	1	Presserfoot Cam Lever	$2.20
E27-2A	1	Presserfoot Cam Lever Pawl	1.38
E27-3	1	Auxiliary Pressure Lever	1.65
E27-4	1	Auxiliary Pressure Lever Ratchet	1.38
E27-5		Presserfoot (See List on page No. 14)	1.76
E27-6	1	Presserfoot Lever	4.40
E27-7	1	Presserfoot Raising Handle	1.38
E27-8	1	Presserfoot Lever Ratchet	1.38
E27-9	1	Presserfoot Lever Locking Pawl (outside)	1.10
E27-10	1	Presserfoot Lever Locking Pawl (inside)	1.10
E27-11	1	Presserfoot Unlocking Hand Lever	1.38
E27-12	1	Presserfoot Unlocking Hand Lever Connection	.28
E27-13	1	Thread Measure Cam Lever	1.65
E27-14	1	Thread Measure Cam Lever Connection	1.10
E27-15	1	Thread Measure Adjusting Slide	2.48
E27-16	1	Thread Measure Adjusting Bracket	1.65
E27-17	1	Thread Measure Slide Block Lever	.83
E27-18	1	Thread Measure Thread Roll Lever	.83
E27-101	1	Presserfoot Cam Lever Roll	.83
E27-101A	1	Presserfoot Cam Lever Roll Stud Lock Washer	.10
E27-106A	1	Presserfoot Lever Pawl Spring Stud Sleeve	.17
E27-109	1	Retaining Washer for Locking Pawls	.10
E27-113	1	Thread Measure Cam Lever Roll	.83
E27-114	1	Thread Measure Cam Lever Connection Retaining Washer	.10
E27-115	1	Thread Measure Adjusting Slide Retaining Washer	.10
E27-116	1	Thread Measure Adjusting Slide Block	.55
E27-117	1	Thread Measure Thread Roll	.28
E27-201	1	Presserfoot Cam Lever Roll Stud	.83
E27-201A	1	Presserfoot Cam Lever Pivot Stud	.83
E27-201B	1	Presserfoot Cam Lever Pawl Pressure Plug	.28
E27-202	1	Presserfoot Cam Lever Pawl Pivot Stud	.28
E27-206	1	Presserfoot Lever Pivot Stud	1.38
E27-206A	1	Presserfoot Lever Spring Stud	1.38
E27-206B	1	Presserfoot Lever Spring Tension Stud	.28
E27-209	1	Presserfoot Lever Locking Pawl Stud	.28
E27-212	1	Unlocking Hand Lever Connection Stud	.10
E27-213	1	Thread Measure Cam Lever Roll Stud	.83

(Section No. E27 continued on page 29)

When ordering parts the **SERIAL NUMBER** of your machine **MUST** be given.

Landis No. 12—Section No. E27

Presserfoot and Thread Measure

Part No.	Reqd.	Name of Part	Price
E27-214	1	Thread Measure Cam Lever Connection Stud	$0.28
E27-216	1	Thread Measure Adjusting Bracket, Eccentric Stud	.55
E27-217	1	Slide Block Lever Slide Block Stud	.33
E27-217A	1	Slide Block Lever Pivot Stud	1.10
E27-218	1	Thread Measure Thread Roll Stud	.10
E27-301	1	Presserfoot Cam Lever Roll Stud Nut	.10
E27-301A	1	Presserfoot Cam Lever Pivot Stud Set Screw	.17
E27-304	2	Auxiliary Ratchet Retaining Screw	.10
E27-305	2	Presserfoot Retaining Screw	.10
E27-306	1	Presserfoot Lever Pivot Stud Set Screw	.10
E27-306A	1	Presserfoot Lever Spring Stud Fulcrum Screw	.22
E27-306B	1	Presserfoot Lever Spring Tension Stud Check Nut	.10
E27-307	2	Presserfoot Raising Handle Retaining Screw	.10
E27-308	2	Presserfoot Lever Ratchet Retaining Screw	.10
E27-309	1	Presserfoot Locking Pawl Retaining Washer Screw	.10
E27-309A	1	Presserfoot Locking Pawl Stud Nut	.10
E27-312	1	Unlocking Hand Lever Connection Stud Nut	.10
E27-314	1	Thread Measure Lever Connection Retaining Washer Screw	.10
E27-315	1	Thread Measure Adjusting Slide Retaining Washer Screw	.10
E27-316	1	Thread Measure Adjusting Bracket Eccentric Screw	.33
E27-317	1	Slide Block Lever Slide Block Stud Nut	.17
E27-317A	1	Slide Block Lever Set Screw	.10
E27-317B	2	Copper Heat Plate Retaining Screw	.10
E27-318	1	Thread Roll Lever Thread Roll Stud Nut	.10
E27-318A	1	Thread Roll Lever Thread Roll Guard Retaining Screw	.10
E27-318B	1	Thread Roll Lever Set Screw	.10
E27-502	1	Presserfoot Cam Lever Pawl Pressure Pin	.17
E27-501A	1	Presserfoot Cam Lever Pawl Spring Pin	.10
E27-509	1	Presserfoot Lever Locking Pawl Pin	.10
E27-617A	1	Copper Heat Plate for Thread Roll	.22
E27-618	1	Thread Measure Thread Roll Guard	.17
E27-701A	1	Presserfoot Cam Lever Pawl Spring	.10
E27-706	1	Presserfoot Lever Spring	.10
E27-709	1	Presserfoot Lever Locking Pawl Spring	.10
E27-710	1	Presserfoot Lever Locking Pawl Spring	.10
E27-711	1	Unlocking Hand Lever Spring	.10
E27-716	1	Thread Measure Adjusting Bracket Spring	.10
E27-902	1	Presserfoot Cam Lever Pawl Pivot Stud Cotter Pin	.10

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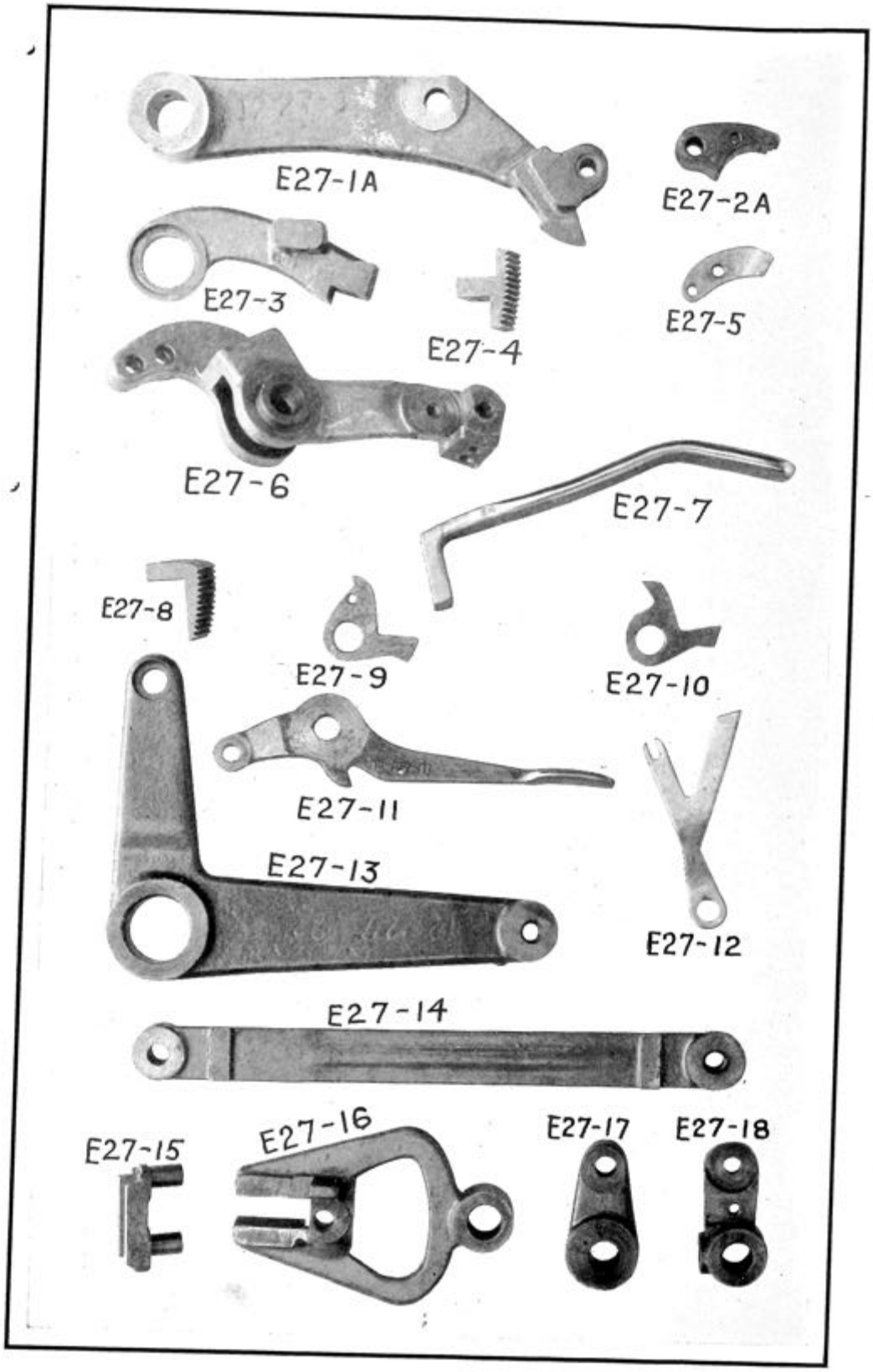
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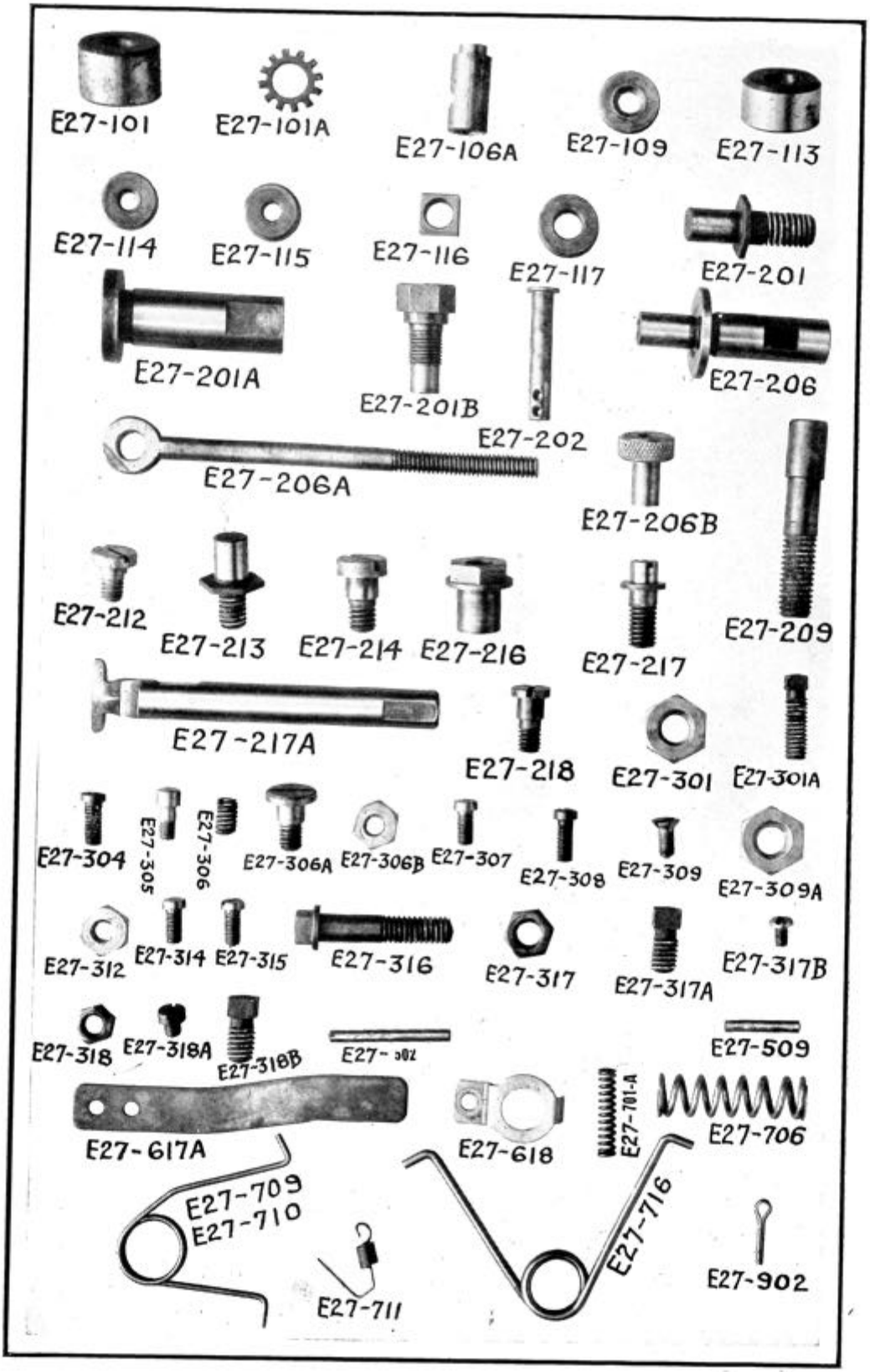
Section No. E27



When ordering parts the **SERIAL NUMBER** of your machine **MUST** be given.

Landis No. 12—Section No. E28

Take Up and Thread Lock

Part No.	Reqd.	Name of Part	Price
E28-1	1	Take Up Cam Lever	$2.48
E28-2	1	Take Up Cam Lever Connection	.83
E28-3	1	Take Up Lever	4.68
E28-4	1	Take Up Lever Fulcrum Bracket	2.48
E28-5	1	Auxiliary Take Up Lever....(Assm. $2.75)	1.65
E28-7	1	Thread Lock Cam Lever	1.38
E28-8	1	Thread Lock Shaft Swivel Connection	1.10
E28-9	1	Thread Lock Rocker Shaft Swivel	1.38
E28-10	1	Thread Lock Rocker Shaft	3.00
E28-11	1	Thread Lock Lever	1.93
E28-12	1	Thread Tension Wheel	1.38
E28-13	1	Thread Tension Spring Adjusting Disc	.55
E28-14	1	Thread Tension Spring Adjusting Disc Lock Nut	.28
E28-16N	1	Auxiliary Take Up Bracket	4.40
E28-101	1	Take Up Cam Lever Roll	.83
E28-101A	1	Take Up Cam Lever Roll Stud Lock Washer	.10
E28-103	1	Take Up Lever Thread Roll	.28
E28-103A	1	Take Up Lever Thread Roll Guard	.55
E28-104	1	Take Up Lever Fulcrum Bracket Bushing	.39
E28-104A	1	Spacing Collar for Fulcrum Bracket Retaining Screw	.10
E28-105	1	Auxiliary Take Up Lever Thread Roll	.28
E28-105A	1	Auxiliary Take Up Lever Spring Retaining Washer	.10
E28-105B	1	Auxiliary Take Up Lever Fulcrum Stud Retaining Washer	.10
E28-105C	1	Auxiliary Take Up Lever Fulcrum Stud Lock Washer	.10
E28-107	1	Thread Lock Cam Lever Roll	.83
E28-109	1	Retaining Washer for Rocker Shaft Swivel	.10
E28-111	1	Thread Lock Thread Roll	.22
E28-111A	1	Thread Lock Thread Roll Retaining Washer	.10
E28-112	1	Thread Tension Wheel Friction Disc	.17
E28-116B	2	Auxiliary Take Up Bracket Unit Clamp Screw Washer	.10
E28-116N	1	Auxiliary Take Up Bracket Retaining Screw, Lock Washer	.10
E28-201	1	Take Up Cam Lever Roll Stud	.83
E28-201A	1	Take Up Cam Lever Pivot Stud	.83
E28-202	1	Take Up Cam Lever Connection Stud	.28
E28-203	1	Take Up Lever Connection Stud	.28

(Section No. E28 continued on page 33)

All Prices Subject To Change Without Notice

When ordering parts the **SERIAL NUMBER** of your machine **MUST** be given.

Landis No. 12—Section No. E28

Take Up and Thread Lock

Part No.	Reqd.	Name of Part	Price
E28-203B	1	Take Up Lever Thread Roll Stud	$0.22
E28-205	1	Auxiliary Take Up Lever Thread Roll Stud	.22
E28-205A	1	Auxiliary Take Up Lever Fulcrum Stud	.28
E28-207	1	Thread Lock Cam Lever Roll Stud	.83
E28-207A	1	Thread Lock Cam Lever Pivot Stud	.83
E28-208	1	Thread Lock Rocker Shaft Swivel Connection Stud	.28
E28-211	1	Thread Lock Roll Stud	.28
E28-212	1	Thread Tension Wheel Stud	1.10
E28-301	1	Take Up Cam Lever Roll Stud Nut	.10
E28-301A	1	Take Up Cam Lever Pivot Stud Binding Pin Nut	.17
E28-302	1	Take Up Cam Lever Connection Stud Nut	.10
E28-303	1	Take Up Lever Connection Stud Nut	.10
E28-303A	1	Take Up Lever Thread Roll Stud Nut	.10
E28-303B	2	Take Up Lever Friction Spring Retaining Screw	.10
E28-304	1	Fulcrum Bracket Retaining Screw (Long)	.10
E28-304A	1	Fulcrum Bracket Retaining Screw (Short)	.10
E28-305	1	Auxiliary Take Up Lever Thread Roll Stud Nut	.10
E28-305A	1	Auxiliary Take Up Lever Spring Retaining Washer Screw	.10
E28-305B	1	Auxiliary Take Up Lever Pivot Stud Nut	.10
E28-305C	1	Auxiliary Take Up Lever Adjusting Screw	.22
E28-305D	1	Auxiliary Take Up Lever Adjusting Screw Nut	.17
E28-307	1	Thread Lock Cam Lever Pivot Stud Set Screw	.10
E28-308	2	Thread Lock Rocker Shaft Swivel Connection Adjusting Nut	.17
E28-309	1	Thread Lock Rocker Shaft Swivel Nut	.10
E28-311	1	Thread Lock Roll Stud Nut	.10
E28-311A	1	Thread Lock Roll Retaining Washer Screw	.10
E28-312	1	Thread Tension Wheel Stud Nut	.10
E28-316	1	Auxiliary Take Up Bracket Retaining Screw	.10
E28-316N	2	Auxiliary Take Up Bracket Heat Unit Clamp Screw	.10
E28-501	1	Take Up Cam Lever Pivot Stud Binding Pin	.22
E28-503A	1	Take Up Lever Thread Roll Guard Locating Pin	.10
E28-612	1	Tension Wheel Spring Friction Disc	.10
E28-616B	1	Take Up Bracket Heat Unit Oil Guard	.10
E28-616NA	1	Auxiliary Take Up Bracket Heat Unit Clamp	.28
E28-703	1	Take Up Lever Friction Spring	.17
E28-705	1	Auxiliary Take Up Lever Spring	.17
E28-712	1	Thread Tension Wheel Spring	.17
E28-908	1	Cotter Pin for Rocker Shaft Swivel Connection Pin	.10
E28-912	1	Thread Tension Wheel Felt Washer (inside)	.10
E28-912A	1	Thread Tension Wheel Felt Washer (outside)	.10
E28-916	1	Auxiliary Take Up Bracket Heat Unit	3.30

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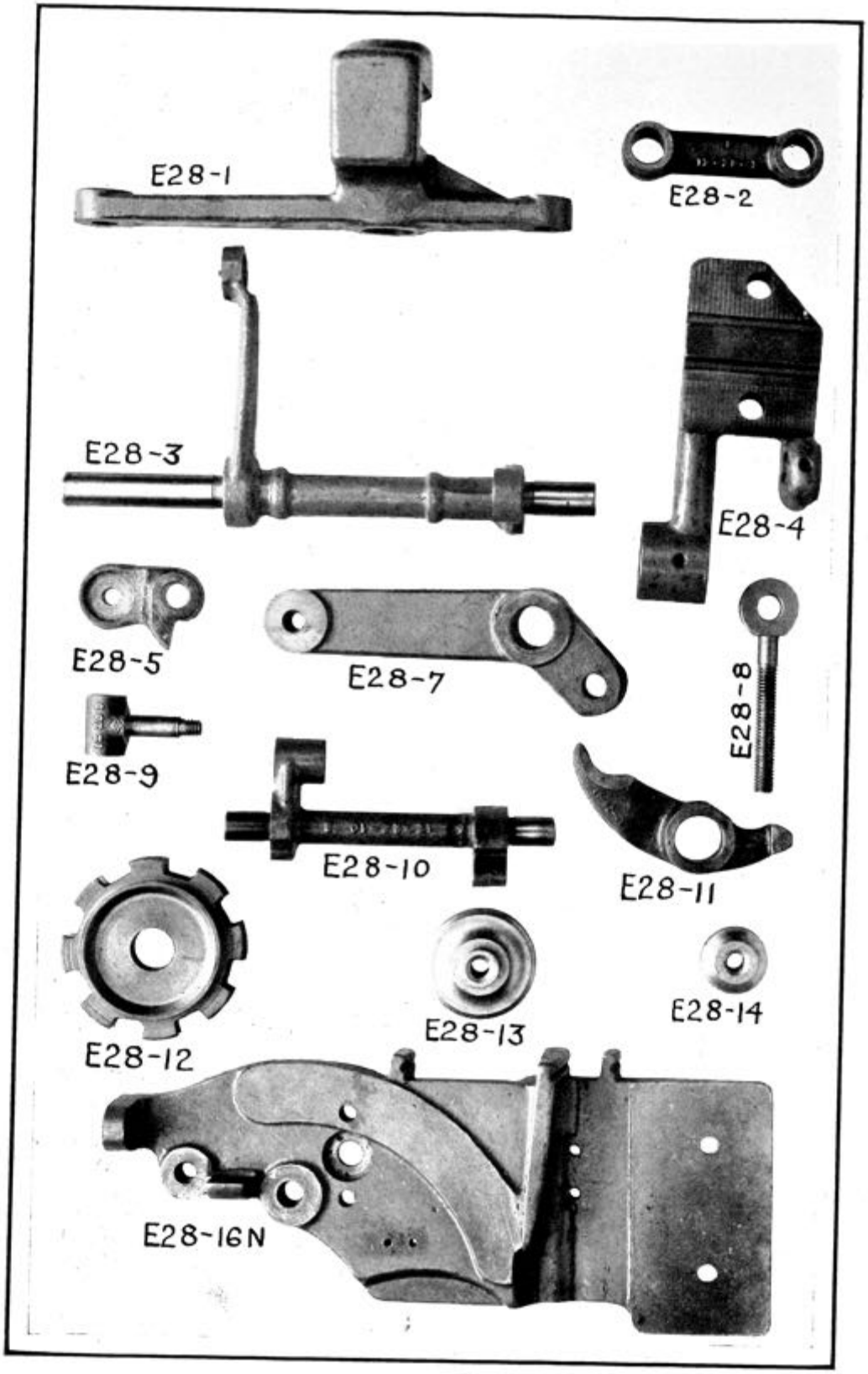
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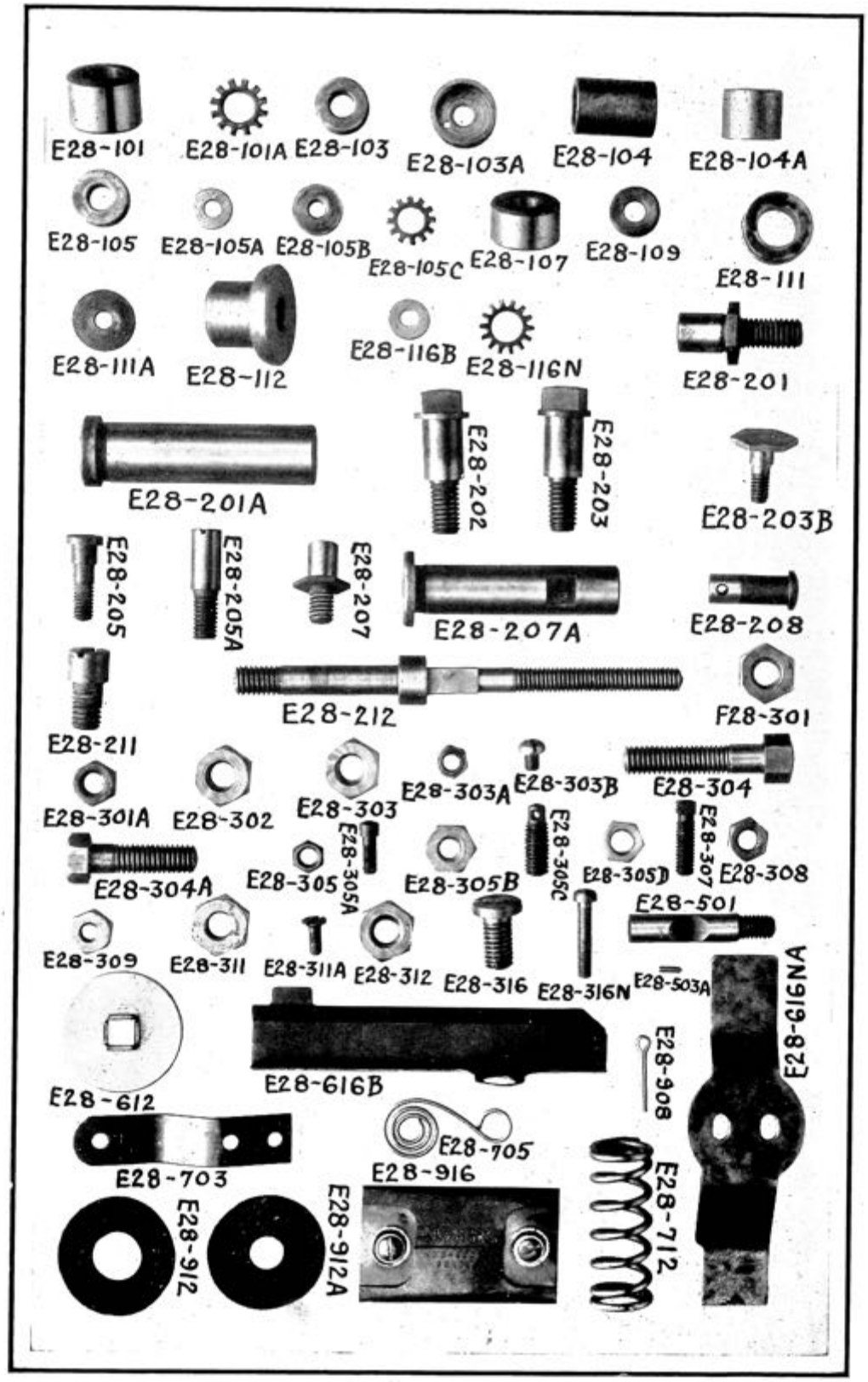
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E28-912A

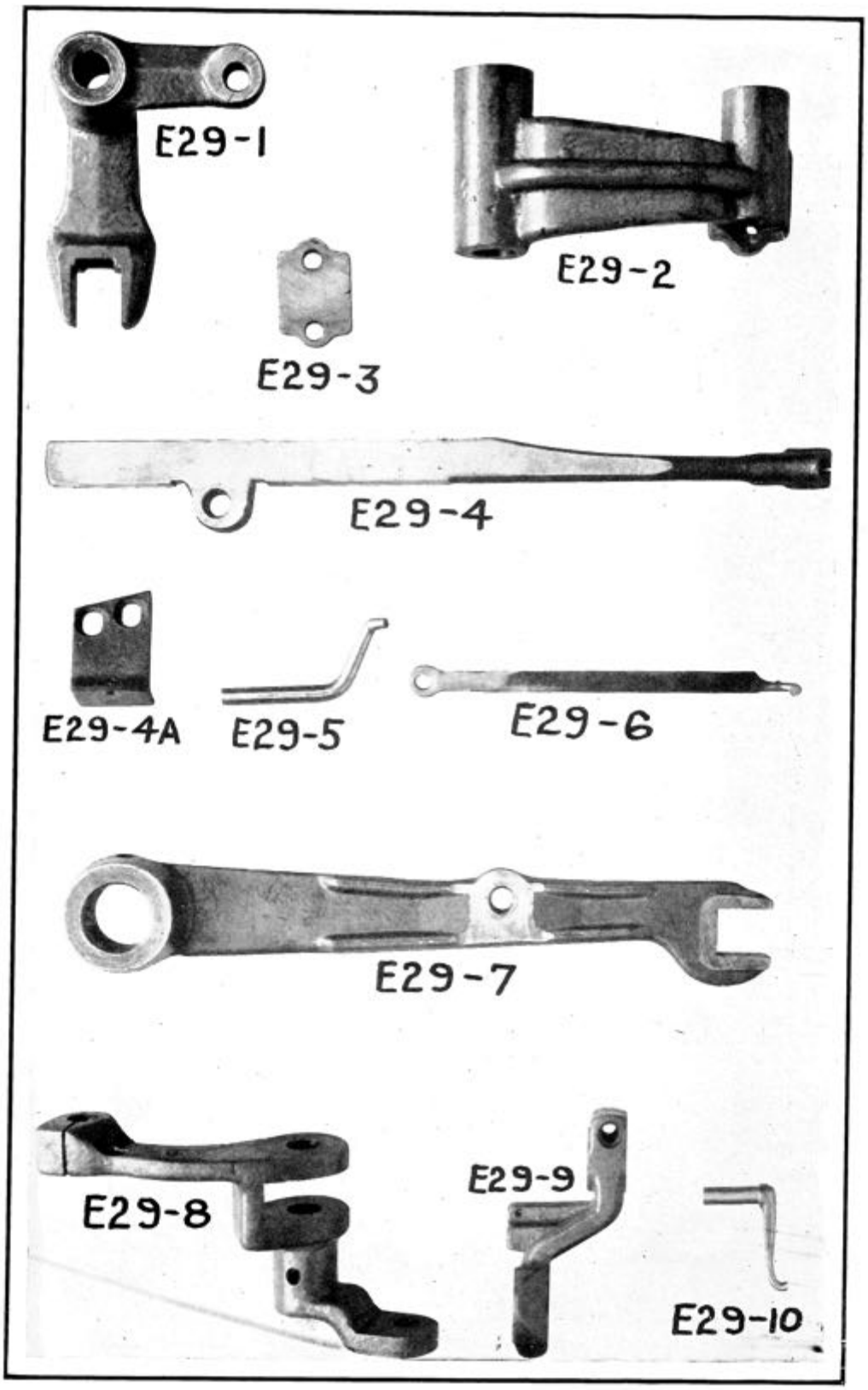
When ordering parts the **SERIAL NUMBER** of your machine **MUST** be given.

Landis No. 12—Section No. E29

Looper and Thread Hook and Thread Lifter

Part No.	Reqd.	Name of Part	Price
E29-1	1	Looper Cam Lever (forward motion)	$3.00
E29-2	1	Looper Cam Lever (side motion)	4.68
E29-3	2	Looper Cam Lever Cap	.28
E29-4	1	Looper Bar	4.68
E29-4A	1	Looper Bar Guide	.83
E29-5	1	Looper	~~1.49~~
E29-6	1	Thread Hook	3.30
E29-7	1	Thread Lifter Cam Lever	3.58
E29-8	1	Thread Lifter Lever	3.00
E29-9	1	Thread Lifter Lever Stud Support Bracket	1.10
E29-10	1	Thread Lifter	~~1.49~~
E29-101A	1	Looper Cam Lever Roll (forward motion)	.83
E29-101B	1	Looper Cam Lever Slide Block	.83
E29-101C	1	Looper Cam Lever Slide Block Retaining Washer	.10
E29-101D	1	Slide Block Stud Lock Washer	.10
E29-101E	1	Looper Cam Lever Roll Stud Lock Washer	.10
E29-102A	1	Looper Cam Lever Roll (side motion)	.83
E29-102B	1	Looper Cam Lever Roll Stud, Lock Washer	.10
E29-106	1	Thread Hook Cam Roll	.83
E29-107	1	Thread Lifter Cam Lever Roll	.83
E29-107A	1	Thread Lifter Lever Slide Block	1.10
E29-107B	1	Thread Lifter Cam Lever Roll Stud, Lock Washer	.10
E29-107C	1	Thread Lifter Lever Slide Block Stud, Lock Washer	.10
E29-201	1	Pivot Stud Forward Motion Looper Cam Lever	.55
E29-201A	1	Roll Stud Forward Motion Looper Cam Lever	.83
E29-201B	1	Slide Block Stud	.83
E29-202	1	Pivot Stud, Side Motion Looper Cam Lever	.83
E29-202A	1	Roll Stud, Side Motion Looper Cam Lever	.83
E29-206	1	Thread Hook Cam Roll Stud	.28
E29-207	1	Thread Lifter Cam Lever Roll Stud	.83
E29-207A	1	Thread Lifter Slide Block Stud	.83
E29-208	1	Thread Lifter Lever Pivot Stud	.28
E29-210	1	Thread Lifter Eccentric Stud	.28
E29-301	1	Looper Cam Lever Forward Motion Pivot Stud Set Screw	.28
E29-301A	1	Looper Cam Lever Roll Stud Nut	.10
E29-301B	1	Slide Block Stud Nut	.10
E29-301C	1	Slide Block Retaining Washer Screw	.10
E29-302	1	Looper Cam Lever Side Motion Pivot Stud Set Screw	.17
E29-302B	1	Looper Cam Lever Roll Stud Nut	.10
E29-303	4	Looper Cam Lever Cap Retaining Screw	.10
E29-304A	2	Looper Bar Guide Retaining Screw	.10
E29-305	1	Looper Binding Screw	.28
E29-306	1	Thread Hook Cam Roll Stud Nut	.17
E29-307	1	Thread Lifter Cam Lever Roll Stud Nut	.10
E29-307A	1	Thread Lifter Slide Block Stud Nut	.10
E29-308	1	Thread Lifter Lever Pivot Stud Binding Screw	.10
E29-309	2	Thread Lifter Lever Stud Support Bracket Clamp Screw	.10
E29-310	1	Thread Lifter Binding Screw	.33

All Prices Subject To Change Without Notice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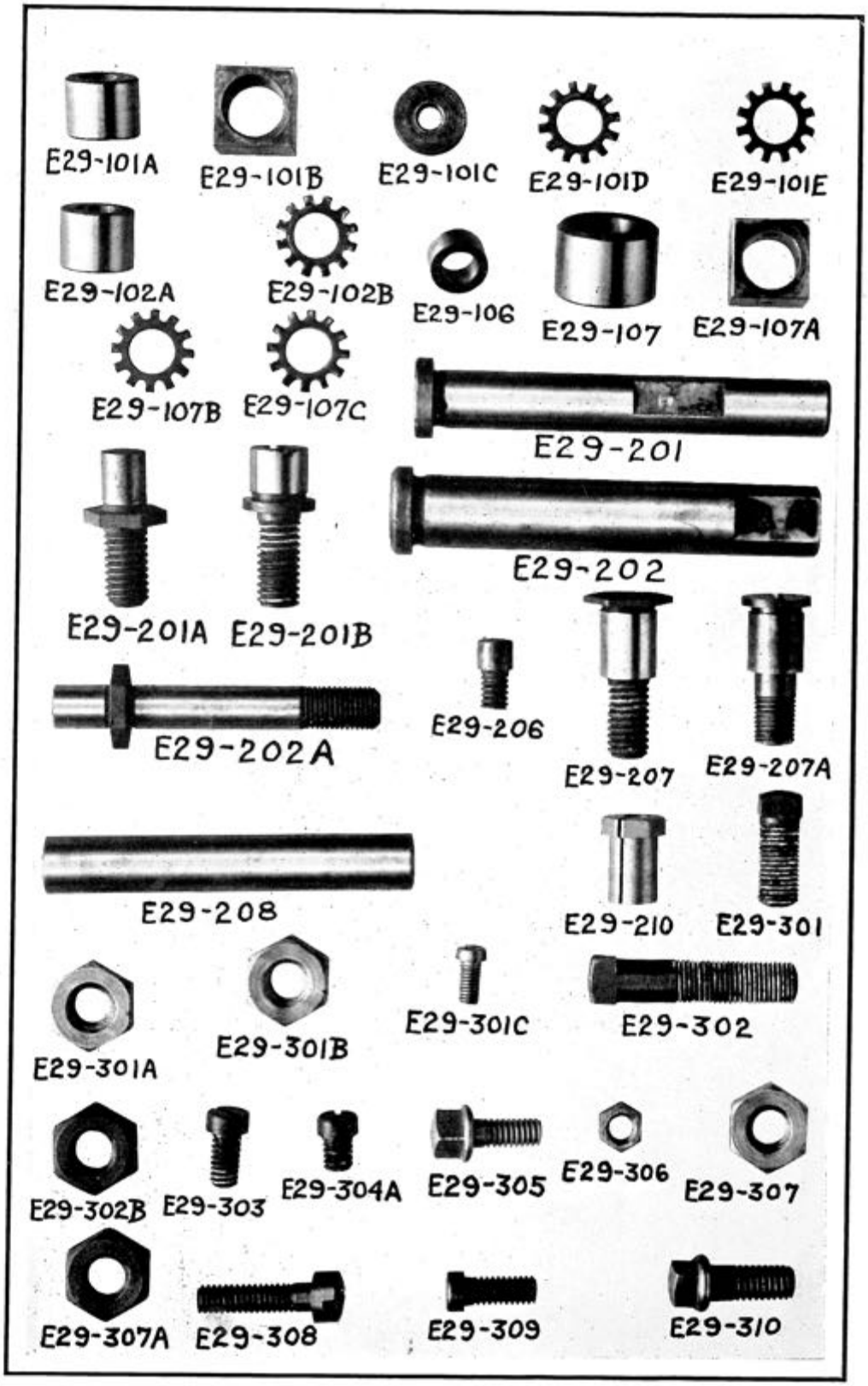
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Landis No. 12—Section No. E30

Shoe Guide and Guard

Part No.	Reqd.	Name of Part	Price
E30-1A	1	Shoe Guide	$1.65
E30-2	1	Guide Bracket	2.20
E30-2A	1	Guide Bracket Gib	.44
E30-3	1	Guide Bracket Retaining Plate	.83
E30-4	1	Guide Bracket Base Plate	2.20
E30-5	1	Guide Bracket Rocker Arm	1.10
E30-6	1	Rocker Arm Fulcrum Bracket	.83
E30-7	1	Rocker Arm Connection	1.65
E30-8	1	Rocker Arm Shifter Handle	.55
E30-9	1	Rocker Arm Swivel Connection	1.38
E30-10	1	Rocker Arm Swivel	.83
E30-11	1	Feed and Guide Handle	1.38
E30-102	1	Shoe Guard Retaining Washer	.10
E30-105	1	Rocker Arm Slide Block	.55
E30-110A	1	Rocker Arm Swivel Retaining Washer	.10
E30-207	1	Rocker Arm Connection Stud	.22
E30-301	2	Shoe Guide Retaining Screw	.10
E30-302	1	Shoe Guard Retaining Screw	.10
E30-302A	2	Guide Bracket Gib Adjusting Screw	.10
E30-302B	2	Guide Bracket Gib Adjusting Screw Nut	.10
E30-303	2	Guide Bracket Retaining Plate Retaining Screw	.10
E30-304	3	Guide Bracket Base Plate Retaining Screw	.10
E30-305	1	Slide Block Pivot Screw	.10
E30-306	1	Fulcrum Bracket Retaining Screw	.28
E30-307	1	Rocker Arm Connection Binding Screw	.28
E30-310	1	Swivel Binding Screw	.28
E30-310A	1	Swivel Retaining Nut	.10
E30-602	1	Shoe Guard (Wide)	.83
E30-602A	1	Shoe Guard (Narrow)	.83
		Complete Baltimore Attach	11.00

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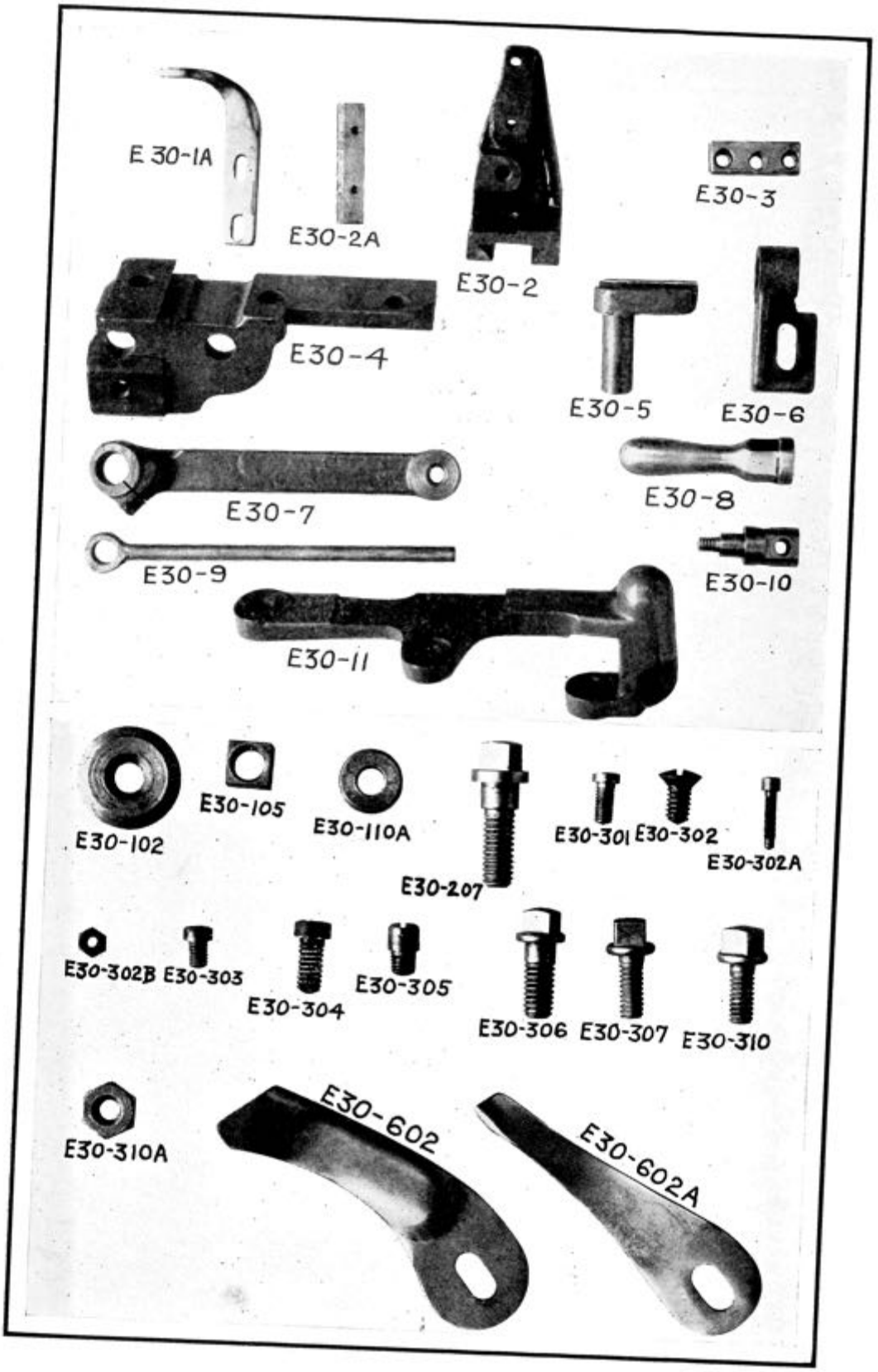
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E30-602A

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Landis No. 12—Section No. E31

Wax Pot and Electrical

Part No.	Reqd.	Name of Part	Price
E31-24	1	Wax Pot (Bronze)	$3.30
E31-24N	1	Wax Pot Lid	.55
E31-25	1	Tool Shelf	4.68
E31-25A	1	Tool Shelf Bracket	4.13
E31-25C	1	Tool Shelf Heat Guard	.94
E31-26	1	Thread Guide	.44
E31-30	1	Terminal Box	1.38
E31-30A	1	Terminal Block	1.10
E31-30B	1	Terminal Box Lid	.28
E31-30C	1	Terminal Box Lid Handle	.10
E31-31	1	Conduit Connector (straight) for Motor Drive	.28
E31-31A	1	Flexible Conduit for Motor	.55
E31-31B	1	Conduit Connector (angle) for Motor Drive	.55
E31-32	1	Terminal Box to Tension Wheel Conduit	.83
E31-35	1	Terminal Box to Shuttle Conduit	1.93
E31-37	1	Adjustable Retaining Bar for Snap Switch, Motor Drive	.44
E31-38	2	Adapter Ring for Snap Switch, Motor Drive	.33
E31-39	1	Switch and Fuse Box, Motor Drive, Complete	11.00
E31-41	1	Conduit Connector for Switch Box	.55
E31-42	1	Conduit (½x4 in.) for Switch Box	.10
E31-42A	1	Conduit (½x3 in.) for Switch Box, Motor Drive	.10
E31-43	1	Switch and Fuse Box	2.75
E12-31-43		Switch and Fuse Box, Assembled	8.80
E31-43A	1	Attachment Plug Complete	.28
E31-43C	1	Fuse Block (porcelain)	.44
E31-43D	2	Fuse, 8 Ampere	.10
E31-43E	1	Lamp Socket (porcelain)	.39
E31-43F	1	Pilot Lamp, 110 Volt	.55
E31-43G	1	Snap Switch, Complete, for Heater or Motor	2.20
E31-43H	1	Switch and Fuse Box Door	.55
E31-43L	1	Pilot Lamp, 220 Volt	.55
E31-43PA	1	Lamp Socket	.55
E31-44	1	Motor Switch Box (Special) for Motor Drive	1.93
E31-45	1	Conduit (½x2 in.) for Switch Box	.10
E31-49	1	Attachment Cord, Comp.	2.48
E31-50	1	Rheostat	8.80
E31-51	1	Pipe Tee for Switch Box Conduit	.28
E31-125	2	Heat Guard Tool Shelf Retaining Bolt, Lock Washer	.10
E31-125A	4	Heat Guards R. and L. Retaining Screw, Lock Washer	.10
E31-128	1	Wax Pot Thread Roll	.28
E31-130	6	Terminal Box, Spacing Washer	.10
E31-130A	1	Terminal Box, Electric Wire Bushing	.10
E31-139	2	Motor Switch Box Retaining Screw Lock Washer	.10
E31-143	2	Switch Box Retaining Screw, Lock Washer	.10
E31-143A	1	Attachment Cord, Bushing	.10
E31-150	2	Rheostat, Spacing Collar	.10
E31-151	1	Rheostat Electric Wire, Bushing	.10
E31-208A	2	Stripper Stud	.10
E31-225	1	Tool Shelf Clamping Stud	.28
E31-228	1	Wax Pot Thread Roll Stud	.10

(Section No. E31 continued on page 42)

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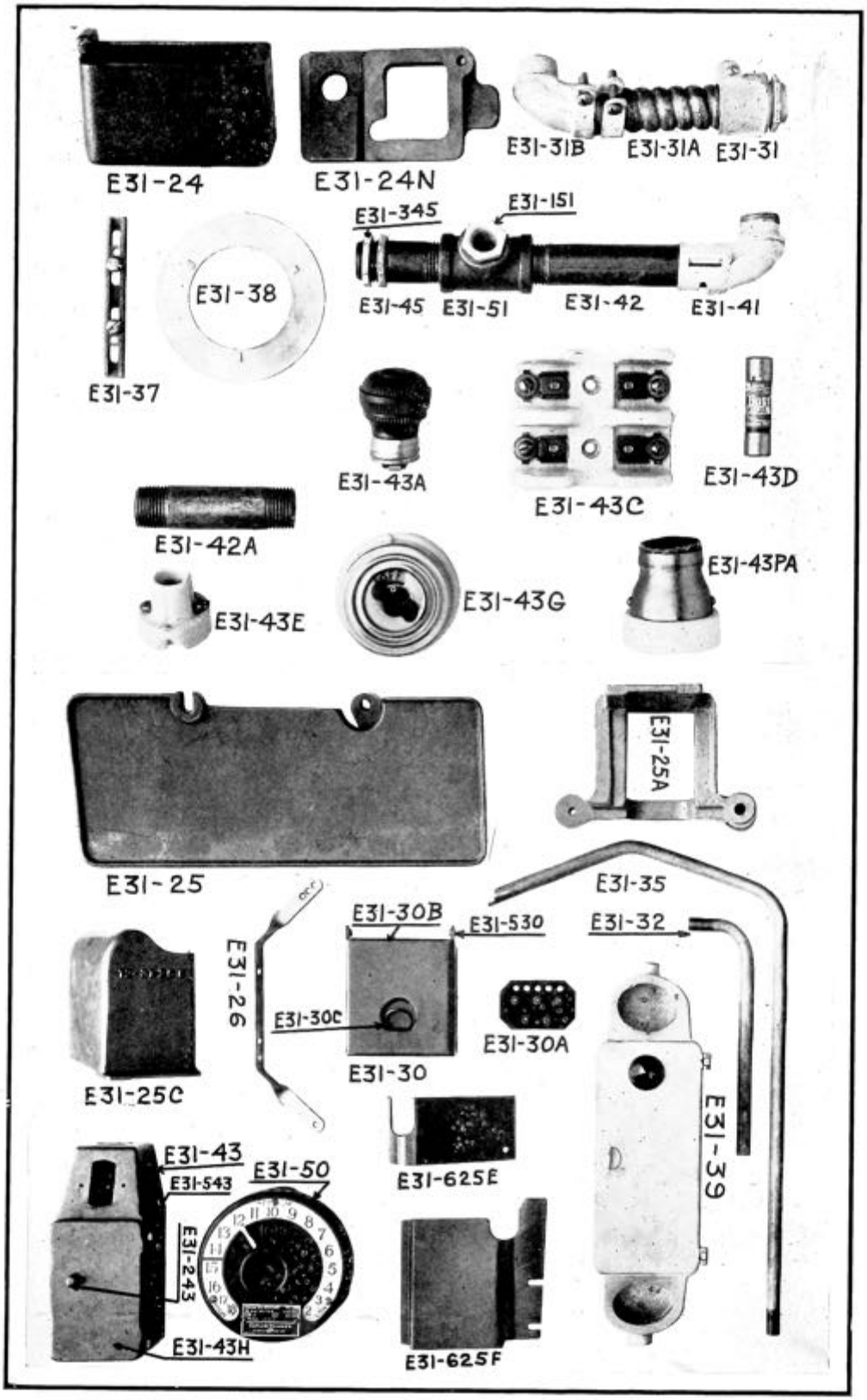
Landis No. 12—Section No. E31

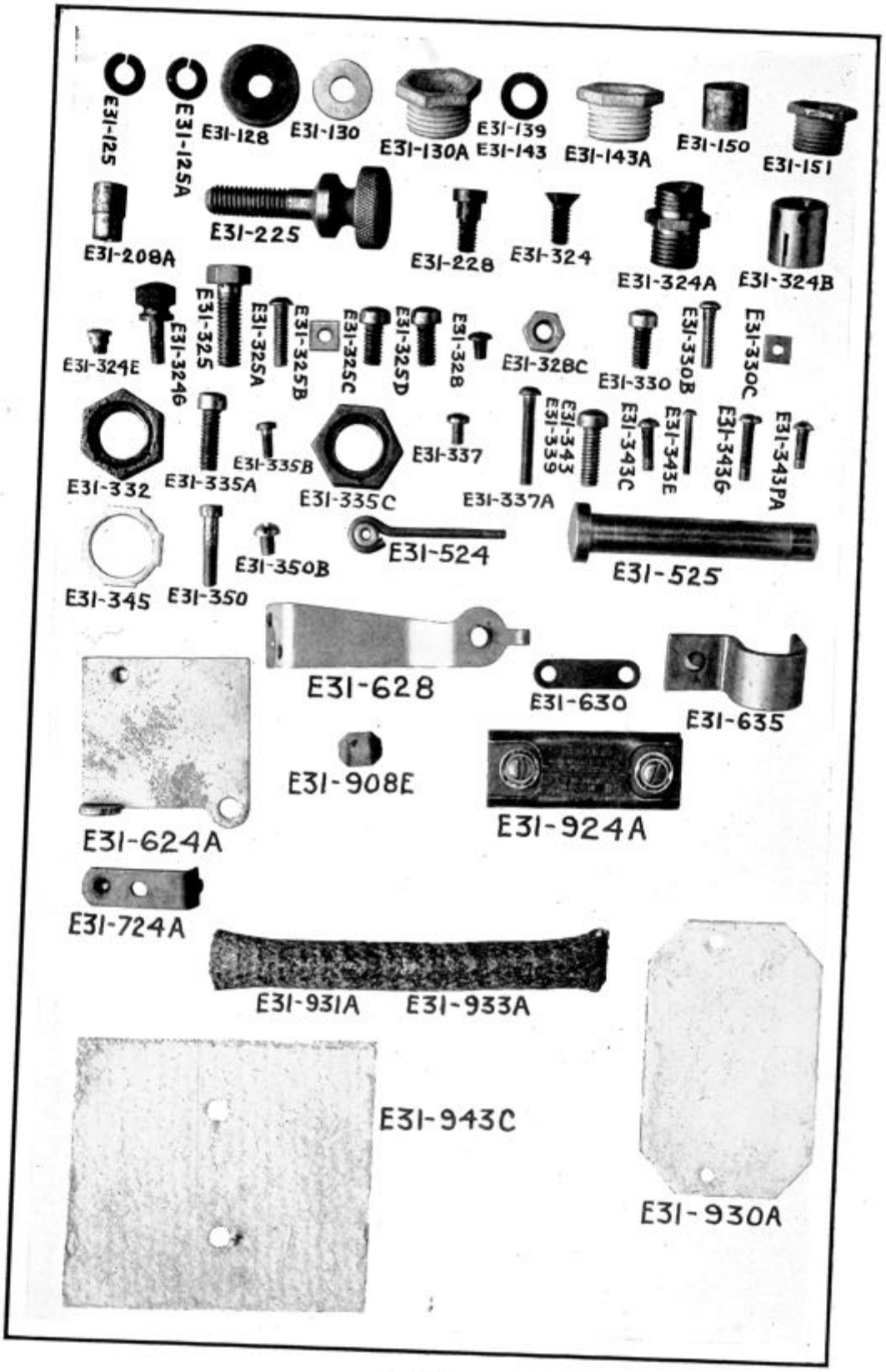
Wax Pot and Electrical

Part No.	Reqd.	Name of Part	Price
E31-243	1	Switch Box Door Knob	$0.10
E31-324	2	Wax Pot Retaining Screw	.10
E31-324A	2	Wax Pot Stripper Screw	.28
E31-324B	2	Wax Pot Stripper Binding Nut	.10
E31-324E	1	Wax Pot Auxiliary Lid, Retaining Screw	.10
E31-324G	1	Wax Pot Lid Clamp, Retaining Screw	.10
E31-325	2	Tool Shelf Bracket, Retaining Screw	.10
E31-325A	2	Tool Shelf Heat Guard, Retaining Screw	.10
E31-325B	2	Tool Shelf Heat Guard, Retaining Screw Nut	
E31-325C	2	L. H. Heat Guard, Retaining Screw	.10
E31-325D	2	R. H. Heat Guard, Retaining Screw	.10
E31-328	2	Wax Pot Thread Roll Bracket, Retaining Screw	.10
E31-328C	1	Wax Pot Thread Roll Stud, Nut	.10
E31-330	3	Terminal Box, Retaining Screw	.10
E31-330B	2	Terminal Block, Retaining Bolt	.10
E31-330C	2	Terminal Block, Retaining Bolt Nut	
E31-332	2	Tension Wheel Conduit, Lock Nuts	.10
E31-335A	1	Shuttle Conduit Clamp Retaining Screw	.10
E31-335B	1	Shuttle Conduit to Shuttle Case Retaining Screw	.10
E31-335C	2	Shuttle Conduit Lock Nuts	.10
E31-337	2	Adjustable Retaining Bar, Adjusting Screw	.10
E31-337A	2	Adjustable Retaining Bar Switch, Retaining Screw	.10
E31-343	2	Switch Box, Retaining Screw	.10
E31-343C	2	Fuse Block Retaining Screw	.10
E31-343E	2	Lamp Socket (porcelain) Retaining Screw	.10
E31-343G	2	Snap Switch, Retaining Screw	.10
E31-343PA	2	Lamp Socket, Retaining Screw	.10
E31-345	2	Terminal Box to Switch Box, Conduit, Lock Nuts	.10
E31-350	2	Rheostat, Retaining Screw (long)	.10
E31-350B	1	Rheostat, Retaining Screw (short)	.10
E31-524	1	Wax Pot Lid Thread Guide Retainer, (assembled)	.28
E31-525	1	Tool Shelf, Hinge Pin	.28
E31-530		Terminal Box, Rivets	.10
E31-543	2	Switch Box Door, Hinge Pin	.10
E31-543H	2	Switch Box Door Spring, Rivets	.10
E31-339	2	Motor Switch Box, Retaining Screw	.10
E31-624A	1	Wax Pot, Auxiliary Lid	.28
E31-625E	1	Heat Guard, Left Hand	.28
E31-625F	1	Heat Guard, Right Hand	.28
E31-628	1	Wax Pot Thread Roll Bracket	.10
E31-630	2	Terminal Box, Junction Link, (copper)	.10
E31-635	1	Shuttle Conduit, Clamp	.10
E31-724A	1	Wax Pot Lid, Clamp Spring	.10
E31-743	1	Switch Box Door Spring	.10
E31-908E	2	Wax Pot Stripper (rubber)....Less 50% M Lots	.10
E31-924	1	Wax Pot Lid Thread Guide, assembled to 31-524	
E31-924A	1	Wax Pot Heat Unit	3.30
E31-930A	1	Terminal Block, Asbestos Pad	.10
E31-931A	2	Loom, for Take Up Bracket Heat Unit Wires	.10
E31-933A	2	Loom, for Wax Pot Heat Unit Wires	.10
E31-943C	1	Fuse Block, Asbestos Pad	.10

All Prices Subject To Change Without Notice

Section No. E31

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Landis No. 12—Section No. E32

Stand

Part No.	Reqd.	Name of Part	Price
E32-1	1	Base	$13.20
E32-2B	1	Column	16.50
E32-4	2	Bearing Yoke	1.38
E32-5	2	Power Shaft Bearing	3.30
E32-6	1	Power Friction Pulley	3.58
E32-7	1	Power Shifter Yoke	1.38
E32-8	1	Power Treadle	1.65
E32-9	2	Friction Disc Shifter Link	.50
E32-10	1	Power Friction Disc	.83
E32-11	1	Power Belt Wheel	4.95
E32-12A	1	Switch Box Bracket	1.38
E32-13A	2	Motor Bridge	1.10
E32-13	1	Motor Bracket	3.30
E32-14	1	Belt Guard	3.30
E32-14A	1	Upper Belt Guard Bracket	.22
E32-14BN	1	Lower Belt Guard Bracket	.83
E32-15	1	Power Shaft Drive Pulley, 8-inch	3.85
E32-23AL	1	Left Hand Thread Holder	.83
E32-23AR	1	Right Hand Thread Holder	83
E32-26		Four- inch Pulley	2.48
E32-26A		Three-inch Pulley	2.20
E32-26B		Six- inch Pulley	3.30
E32-101A	4	Stand to Column Connecting Bolt, Washer	.10
E32-102B	1	Bushing for Electric Wires through Column	.28
E32-103	2	Thrust Collar	.55
E32-107	1	Power Treadle Shaft Collar	.44
E32-112A	2	Switch Box Bracket Retaining Screw, Lock Washer	.10
E32-113B	4	Motor Bridge Retaining Screw, Washer	.10
E32-114A	1	Upper Belt Guard Bracket Retaining Screw, Washer	.10
E32-114C	1	Upper Belt Guard Bracket Retaining Screw, Lock Washer	.10
E32-118A	4	Motor Retaining Bolt, Washer	.10
E32-123	2	Thread Holder Pin Retaining Washer	.10
E32-205	2	Shaft Bearing Lid Retaining Stud	.10
E32-301A	4	Screw to hold Base to Column	.17
E32-301B	4	Nut for Screw to Hold Base to Column	

(Section No. E32 continued on page 46

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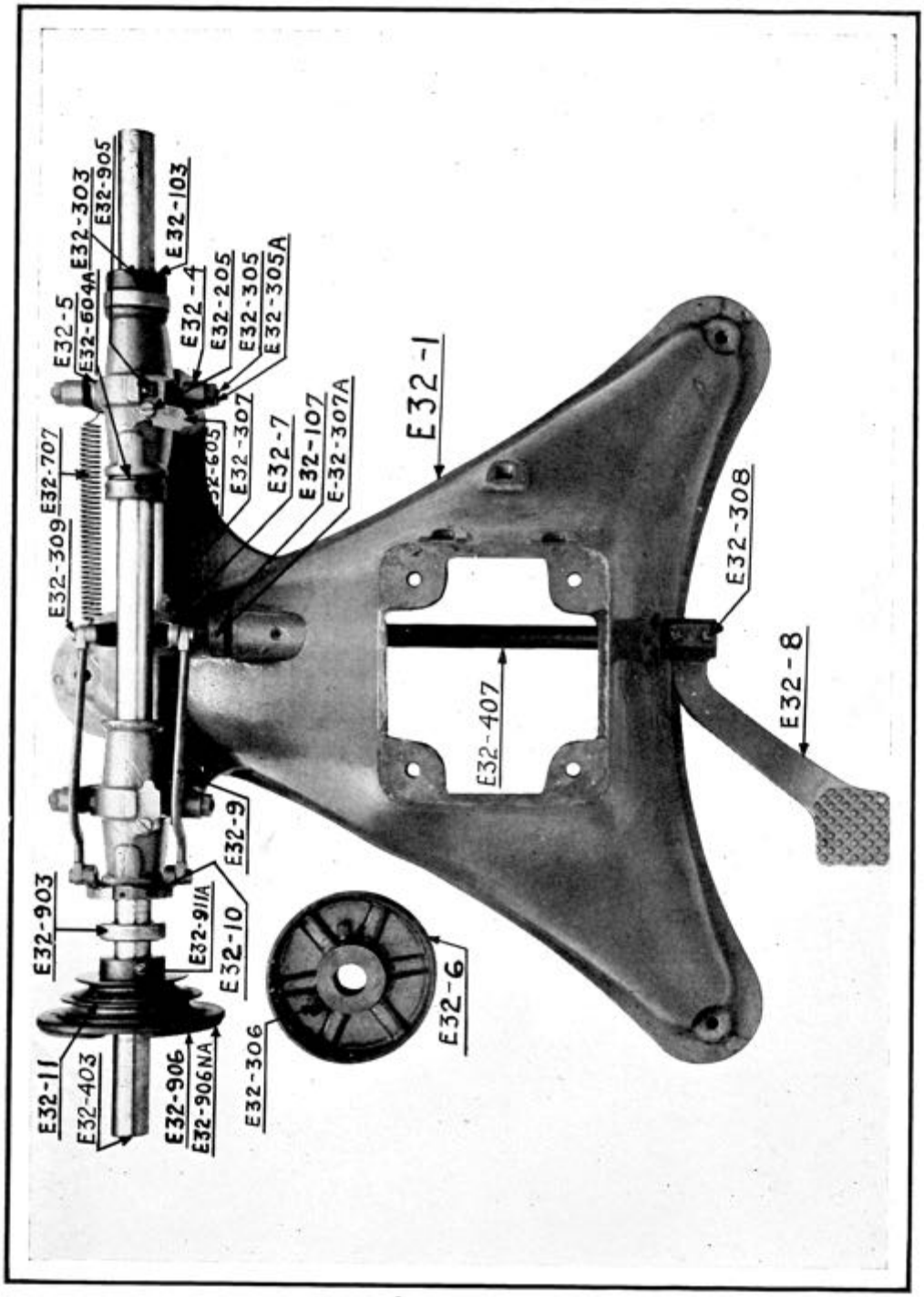
Landis No. 12—Section No. E32

Stand

Part No.	Reqd.	Name of Part	Price
E32-302B	2	Wax Drip Guard Retaining Screw	$0.10
E32-303	4	Thrust Collar Set Screw	.10
E32-304	2	Power Shaft Bearing Yoke Set Screw	.17
E32-305	4	Power Shaft Bearing Adjusting Screw	.17
E32-305A	4	Power Shaft Bearing Adjusting Screw Nut	.10
E32-306	2	Power Friction Pulley Set Screw	.10
E32-307	2	Power Shifter Yoke Set Screw	.10
E32-307A	1	Power Treadle Shaft Set Collar Set Screw	.10
E32-308	2	Power Treadle Set Screw	.17
E32-309	4	Power Shifter Link Screw	.10
E32-312	2	Switch and Fuse Box Bracket, Retaining Screw	.10
E32-313	2	Motor Bracket Retaining Screw	.10
E32-313A	4	Motor Bridge Retaining Bolt and Nut	.10
E32-313C	1	Motor Bracket Retaining Screw (long)	.10
E32-314	2	Screw to Fasten Belt Guard to Brackets	.10
E32-314A	1	Upper Belt Guard Bracket Retaining Screw	.10
E32-314B	1	Lower Belt Guard Bracket Retaining Screw	.10
E32-314C	1	Upper Belt Guard Bracket Retaining Screw Nut	.10
E32-315	1	Power Shaft Drive Pulley Set Screw	.10
E32-318	4	Motor Connecting Bolt and Nut	.10
E32-323A	2	Thread Holder Pin Retaining Washer Screw	.10
E32-323N	2	Thread Holder Retaining Screw	.10
E32-326	1	Pulley Set Screw	.10
E32-403	1	Power Shaft	2.48
E32-407	1	Power Treadle Shaft	1.10
E32-505	2	Chain Oiler Connection Pin	.10
E32-523	2	Thread Holder Pin (wood)	.28
E32-602B	1	Wax Drip Guard	.33
E32-604A	1	Power Shaft Bearing Fibre Washer	.10
E32-605	2	Power Shaft Bearing Lid	.10
E32-707	1	Shifter Yoke Spring	.28
E32-723	2	Thread Holder Spring	.17
E32-903	2	Power Shaft Thrust Bearing	1.38
E32-905	2	Bearing Chain Oiler	.28
E32-905A	2	Bearing Clean Out Plug	.10
E32-906	3	Leather Friction Pad	.17
E32-906NA	6	Leather Friction Pad Retaining Rivet (One Dozen)	.10
E32-911A	1	Belt Wheel Oiler	.10

All Prices Subject To Change Without Notice

Section No. E32



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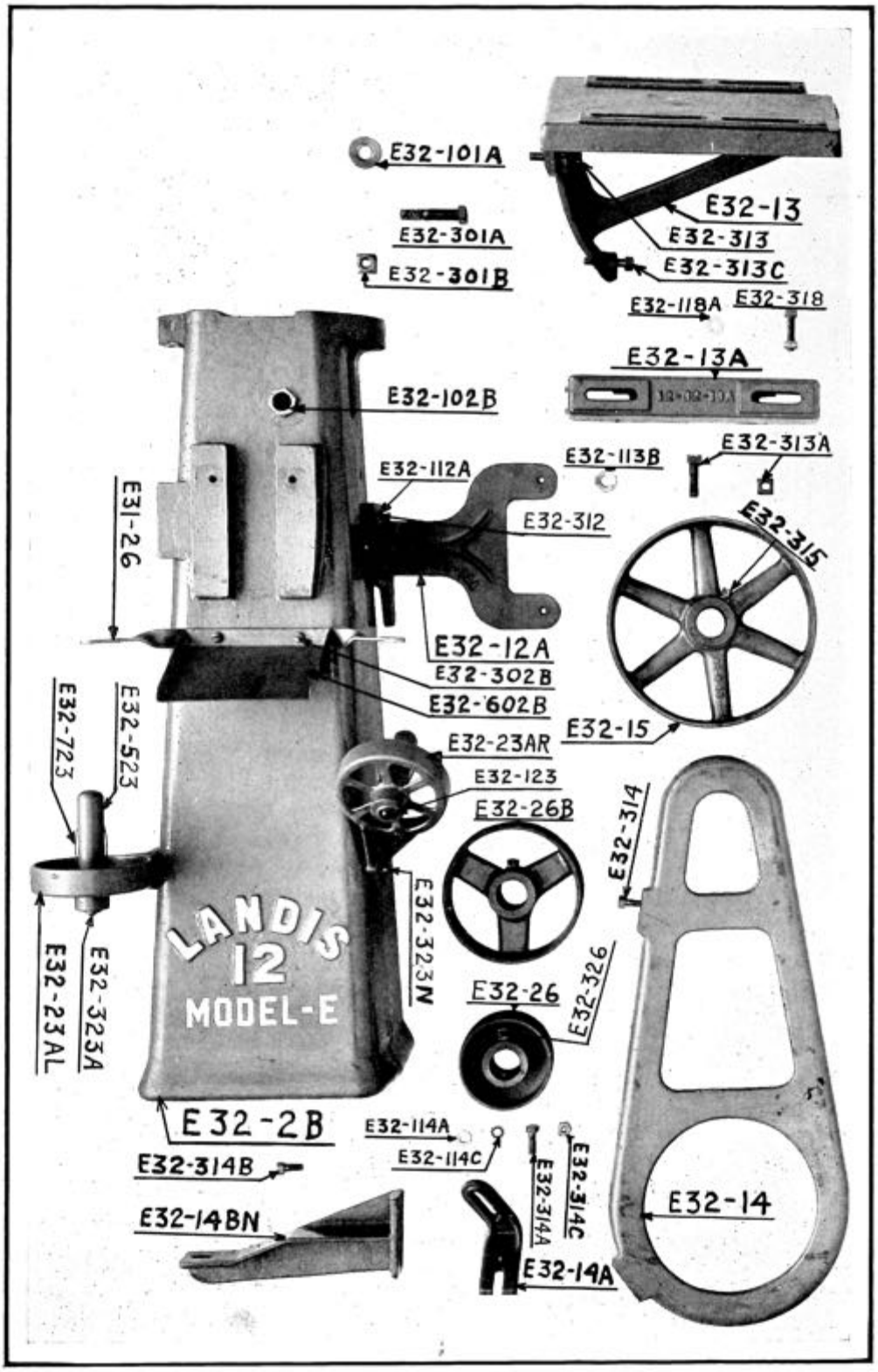

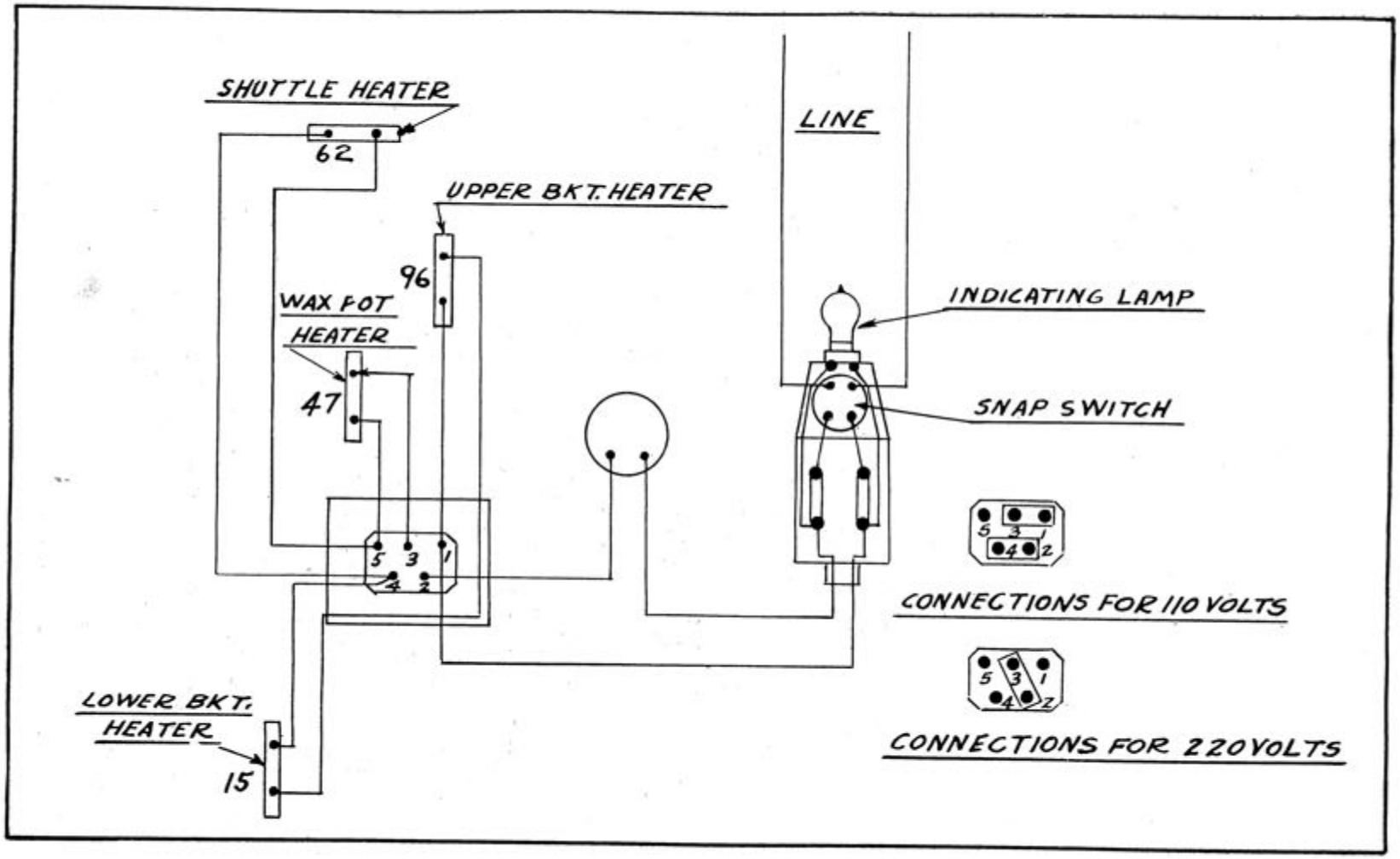
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UPPER BKT. HEATER
96
WAX POT HEATER
47
LOWER BKT. HEATER
15
LINE
INDICATING LAMP
SNAP SWITCH
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4 2
CONNECTIONS FOR 110 VOLTS
5 3 1
4 2
CONNECTIONS FOR 220 VOLTS

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